CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, August 30, 1906.

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CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

The following Plans (P.), Specifications (S.), and Bidding Sheets (B. S.) may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York:

Bids close.	Work.	Place.	On file.	See issue.
Sept.				
1	Storage works	Conconully, Wash	P., S. & B. S.	7-26
1	Pumpwell, etc.	Charleston, N. C	S	8-16
1	Wiring and lighting	Charleston, S. C	S	8-16
*1	Paving	Bridgeport, Conn	S. & B. S.	8-30
3	Sewer	Vicksburg, Miss	S. & B. S.	8-30
3	Paving	Vicksburg, Miss	S. & B. S.	8-30
4	Sewers	Plainfield, N. J	P., S. & B. S.	8-23
4	Officers quarters	N. Chicago, Ill	S	8-23
5	Dredging	Wilmington, Del	S	8-23
5	Ditches	Babcock, Wis	S. & B. S.	8-16
6	Dredging	Boston, Mass	P., S. & B. S.	8-23
*7	Bridge	Portland, Ore	P., S. & B. S.	8-16
8	Sea wall	Philadelphia, Pa	S	8-30
*10	Embankment	Boston, Mass	P. & S.	8-23
10	Electric pumps	Buford, N. Dak	P., S. & B. S.	8- 9
*10	Boilers	Asbury Park, N. J	P. & S.	8-23
*17	Dam	Hermiston, Ore	P., S. & B. S.	6-26
*11	Canals, etc.	Williston, N. Dak	P., S. & B. S.	7-19
15	Hotel bldg.	Manila, P. I	S	3-29
*18	Portland cement	Portland, Ore	S	7-26
*22	Dredging	Mobile, Ala	S	8-23
*22	Elec. subway system	West Point, N. Y	P., S. & B.S.	8-23
Oct.				
*1	Lock	Donaldsonville, La	P. & S.	7- 5
*15	Steel wharf sheds, railways	Manila, P. I	P. & S.	7-19

*Work advertised in Engineering News.

LIST OF CONTRACTS PENDING.

LIGHT, HEAT AND POWER PLANTS.

Bids close. Work. Place. On file. See issue.

Aug. 31. Electric light plant, Staples, Minn.....Aug. 23
Sept. 3. Supplies, Toronto, Ont.....Aug. 30
Sept. 4. Supplies, Washington, D. C.....Aug. 30
Sept. 6. Power-house, etc., Georgetown, Ohio.....Aug. 16
Sept. 10. Electric pumps, Buford, N. Dak.....Aug. 9
Sept. 10. Electric mchny, Williston, N. Dak.....July 19
Advertised, Eng. News, July 19 to Aug. 16.
Sept. 10. Heating & power equip., Evansville, Ind. Aug. 30
Sept. 12. Transformer plant, Chicago, Ill.....July 26
Sept. 12. Transformer substation, Chicago, Ill.....Aug. 9
Sept. 18. Lighting, Pottsville, Pa.....July 12
Sept. 18. Electric light plant, Clinton, Mo.....Aug. 30
Sept. 20. Lighting, Anniston, Ala.....Aug. 23
Sept. 22. Underground transmission line, Albany.....Aug. 30
Advertised, Eng. News, Aug. 30 to Sept. 20.
Sept. 30. Electric light plant, Malvern, Ark.....Aug. 23
Oct. 1. Light plant, Mobile, Ala.....Aug. 30

BRIDGES.

Aug. 31. Bridge superstructures, Brazil (Foreign). Aug. 23
Sept. 1. Arch, Euclid, Ohio.....Aug. 23
Sept. 1. Three bridges, Sydney, Ohio.....Aug. 23
Sept. 3. Raising bridge, Memphis, Tenn.....Aug. 30
Sept. 3. Bridge, Mayday, Ga.....Aug. 30
Sept. 4. Bridge, Kansas City, Mo.....Aug. 23
Sept. 4. Bridge, Fort Ripley, Minn.....Aug. 30
Sept. 4. Bridges, Portland, Ind.....Aug. 30
Sept. 4. Replacing bridge, Fort Lauderdale, Fla. Aug. 23
Sept. 4. Removing bridge, Creston, S. Dak.....Aug. 9
Sept. 4. Bridge, Peoria, Ill.....Aug. 16
Advertised, Eng. News, Aug. 16.
Sept. 5. Bridge, Jefferson, Ohio.....Aug. 23
Sept. 5. Bridges, Brownstown, Ind.....Aug. 30
Sept. 5. Bridge, Bloomfield, Ind.....Aug. 30
Sept. 6. Bridge, Memphis, Tenn.....Aug. 30
Sept. 6. Bridges, Fargo, N. Dak.....Aug. 23
Sept. 7. Bridge, Portland, Ore.....Aug. 16
Advertised, Eng. News, Aug. 16 to Sept. 6.
Sept. 7. Abutments, Grand Rapids, Mich.....Aug. 16
Advertised, Eng. News, Aug. 16 and 23.
Sept. 7. Bridge, Scotts Mills, Ore.....Aug. 30
Sept. 10. Bridge, Carbondale, Pa.....Aug. 30
Advertised, Eng. News, Aug. 30 and Sept. 6.
Sept. 13. Bridges, Brownstown, Ind.....Aug. 30
Sept. 14. Bridge, Milwaukee, Wis.....Aug. 23
Sept. 15. Bridge, Washington, D. C.....Aug. 30
Advertised, Eng. News, Aug. 30 and Sept. 6.
Sept. 15. Bridges, Spokane, Wash.....Aug. 30
Sept. 17. Bridges, Chillicothe, Ohio.....Aug. 30
Sept. 18. Bridge, Woodbury, Ga.....Aug. 30
Sept. 20. Bridge, Perry, Ohio.....Aug. 30
Oct. 3. Bridges, etc., Bradford, R. I.....Aug. 23
Advertised, Eng. News, Aug. 23 and 30.
Oct. 8. Bridge, Daggett, Cal.....Aug. 23

BUILDINGS.

Aug. 31. Wiring and lighting, New York, N. Y.....Aug. 23
Aug. 31. School building, Indianapolis, Ind.....Aug. 23
Sept. 1. Jail, Fairfield, Cal.....Aug. 16
Sept. 1. Office building, Washington, D. C.....Aug. 16
Sept. 2. Court-house, San Jose, Cal.....Aug. 16
Sept. 4. Car shop, Charlottetown, P. E. I.....Aug. 30
Sept. 4. Jail, Salisbury, N. C.....Aug. 30
Sept. 5. Substations, Albion, N. Y.....Aug. 30
Advertised, Eng. News, Aug. 30.
Sept. 5. Guard-house, Little Rock, Ark.....Aug. 30
Sept. 5. Y. M. C. A. building, Jackson, Tenn.....Aug. 30
Sept. 6. Residence, New Castle, Ind.....Aug. 23
Sept. 7. Officers' quarters, West Point, N. Y.....Aug. 9
Advertised, Eng. News, Aug. 9.
Sept. 8. Fireproofing, Washington, D. C.....Aug. 30
Advertised, Eng. News, Aug. 30.
Sept. 10. City hall, Yazoo City, Miss.....Aug. 30
Sept. 15. Hotel, Manila, P. I.....Mar. 29
Sept. 17. Painting and decorating, St. Paul, Minn. Aug. 16
Advertised, Eng. News, Aug. 16 and 23.
Sept. 18. Painting, Aberdeen, S. Dak.....Aug. 16
Sept. 18. School building, Bloomington, Ind.....Aug. 23
Sept. 20. Fireproof doors, Washington, D. C.....Aug. 16
Advertised, Eng. News, Aug. 16 to Sept. 6.
Sept. 20. Repairs, Chicago, Ill.....Aug. 30
Sept. 22. Elec. subway system, West Point, N. Y. Aug. 23
Advertised, Eng. News, Aug. 23 to Sept. 13.
Sept. 24. Church, New Orleans, La.....Aug. 30
Sept. 24. Barracks, Ft. Totten, N. Y.....Aug. 30
Advertised, Eng. News, Aug. 30 to Sept. 20.

WATER SUPPLY AND IRRIGATION.

Aug. 31. Intake, wall, etc., Napa, Cal.....Aug. 9
Sept. 1. Water pipe, Washington, D. C.....Aug. 16
Advertised, Eng. News, Aug. 16 and 23.
Sept. 1. Pump well, etc., Charleston, N. C.....Aug. 16
Sept. 1. Stop cocks, Portland, Ore.....Aug. 23
Sept. 1. Open well, Sioux Falls, S. Dak.....Aug. 23
Sept. 3. Gas engines & pumps, Corning, N. Y.....Aug. 30
Advertised, Eng. News, Aug. 30.
Sept. 4. Water-works supplies, St. Louis, Mo.....Aug. 23
Sept. 4. Water supply, Bartonville, Ill.....Aug. 23
Advertised, Eng. News, Aug. 23 and 30.
Sept. 4. Water-works, Malta, Ohio.....July 26
Sept. 5. Two reservoirs, New Orleans, La.....June 21
Advertised, Eng. News, June 21 to Aug. 30.
Sept. 5. Laying mains, Middletown, Ohio.....Aug. 30
Sept. 6. Water mains, Bismarck, N. Dak.....Aug. 16
Sept. 8. Excavating, White Plains, N. Y.....Aug. 23
Advertised, Eng. News, Aug. 23 to Sept. 6.
Sept. 10. Boiler, Asbury Park, N. J.....Aug. 16
Advertised, Eng. News, Aug. 16 and 23.
Sept. 10. Electric pumps, Buford, N. Dak.....Aug. 9
Sept. 10. Water meters, Winnipeg, Man.....Aug. 30
Advertised, Eng. News, Aug. 30.
Sept. 12. Filter station, New York, N. Y.....Aug. 30
Sept. 17. Artesian well, Pierre, S. Dak.....Aug. 30
Sept. 18. Water-works, Clinton, Mo.....Aug. 30
Sept. 18. Pump, Huntington, Ind.....Aug. 30
Sept. 28. Filtration machines, California, Ohio.....Aug. 23
Sept. 28. Pumping plant, Garden City, Kans.....Aug. 2
Advertised, Eng. News, Aug. 2 to Sept. 6.
Oct. 8. Water-works, Lockport, N. Y.....Aug. 23

SEWERAGE.

Aug. 31. Sewers, Girard, Ohio.....Aug. 23
Aug. 31. Drain, Fort Meade, S. Dak.....Aug. 23
Sept. 1. Sewers, Basin, Wyo.....Aug. 2
Sept. 1. Sewers, Conneaut, Ohio.....Aug. 30
Sept. 1. Sewers, Lewes, Del.....Aug. 30
Sept. 3. Drain, Brewster, Minn.....Aug. 30
Sept. 3. Sewers, Helena, Mont.....Aug. 30
Sept. 3. Ditch, Delphi, Ind.....Aug. 30
Sept. 3. Sewers, Vicksburg, Miss.....Aug. 16
Sept. 3. Sewers, Marcus Hook, Pa.....Aug. 16
Sept. 4. Sewers, South Omaha, Nebr.....Aug. 23
Advertised, Eng. News, Aug. 23 and 30.
Sept. 4. Sewers, Plainfield, N. J.....Aug. 23
Advertised, Eng. News, Aug. 23.
Sept. 4. Sewers, Scranton, Pa.....Aug. 30
Sept. 5. Sewers, St. Marys, Ohio.....Aug. 23
Advertised, Eng. News, Aug. 23.
Sept. 5. Sewers, Carrick, Pa.....Aug. 23
Advertised, Eng. News, Aug. 23 and 30.
Sept. 7. Sewers, St. Charles, Mo.....Aug. 23
Advertised, Eng. News, Aug. 23.
Sept. 7. Sewer pumps, St. Charles, Mo.....Aug. 23
Advertised, Eng. News, Aug. 23.
Sept. 7. Sewers, Utica, N. Y.....Aug. 16
Sept. 7. Sewer gates, Manila, P. I.....July 5
Advertised, Eng. News, July 5 to Aug. 23.
Sept. 10. Sewers, New Ulm, Minn.....Aug. 30
Sept. 10. Sewers, Mauston, Wis.....Aug. 30
Sept. 10. Sewers, Steubenville, Ohio.....Aug. 30
Sept. 10. Sewers, New York, N. Y.....Aug. 30
Sept. 11. Sewers, Washington, D. C.....Aug. 30
Advertised, Eng. News, Aug. 30 and Sept. 6.
Sept. 11. Sewers, Covington, Tenn.....Aug. 23
Advertised, Eng. News, Aug. 23 and 30.
Sept. 12. Sewers, Dowagiac, Mich.....Aug. 23
Sept. 12. Sewers, Denton, Md.....Aug. 23
Advertised, Eng. News, Aug. 23 and 30.
Sept 12. Sewer gates, Manila, P. I.....Aug. 23
Sept. 12. Sewers, Kearney, N. J.....Aug. 30
Sept. 12. Sewers, New York, N. Y.....Aug. 30
Sept. 19. Drains, Baltimore, Md.....Aug. 30
Advertised, Eng. News, Aug. 30 and Sept. 6.
Sept. 20. Sewers, Lake City, S. C.....Aug. 30
Advertised, Eng. News, Aug. 30 to Sept. 13.
Sept. 27. Sewers, Brainerd, Minn.....Aug. 9
No date. Sewers, Raleigh, N. C.....Aug. 23

STREETS AND ROADS.

Aug. 31. Paving, Louisville, Ky.....Aug. 23
Aug. 31. Paving, Cadiz, Ohio.....Aug. 16
Aug. 31. Paving, Louisville, Ky.....Aug. 30
Sept. 1. Roads, Woodbury, Conn.....Aug. 30
Sept. 1. Paving, Bridgeport, Conn.....Aug. 30
Advertised, Eng. News, Aug. 30.
Sept. 1. Road, Craig, Colo.....Aug. 16
Sept. 1. Paving, Beloit, Wis.....Aug. 23
Sept. 1. Paving, Chickasha, Ind. T.....Aug. 23
Sept. 2. Roads, Rushville, Ind.....Aug. 23
Sept. 2. Macadam, Haddonfield, N. J.....Aug. 16
Advertised, Eng. News, Aug. 16 to 30.
Sept. 2. Sidewalks, Delaware City, Del.....Aug. 16
Advertised, Eng. News, Aug. 16 to 30.
Sept. 3. Paving, Vicksburg, Miss.....Aug. 16
Sept. 3. Macadam, Wilmington, N. C.....Aug. 9
Sept. 3. Roads, Bedford, Ind.....Aug. 23
Sept. 3. Roads, Petersburg, Ind.....Aug. 23
Sept. 3. Roads, Rockville, Ind.....Aug. 23
Sept. 3. Macadam, Concord, N. H.....Aug. 23
Sept. 3. Grading, etc., Helena, Mont.....Aug. 30
Sept. 3. Paving, Ingram, Pa.....Aug. 30
Sept. 3. Macadam, Decatur, Ind.....Aug. 30
Sept. 3. Macadam, Greencastle, Ind.....Aug. 30
Sept. 4. Paving, etc., Wheaton, Ill.....Aug. 30
Sept. 4. Paving, Elberton, Ga.....Aug. 30
Sept. 4. Road, Washington, Ind.....Aug. 23
Sept. 4. Paving, Lorain, Ohio.....Aug. 23
Sept. 4. Macadam, Babylon, N. Y.....Aug. 23
Advertised, Eng. News, Aug. 23.
Sept. 4. Sidewalks, St. Paul, Minn.....Aug. 16
Sept. 4. Gravel roads, Vincennes, Ind.....Aug. 16
Sept. 4. Paving, Cohoes, N. Y.....Aug. 16
Advertised, Eng. News, Aug. 16.
Sept. 4. Flagging, Westfield, N. J.....Aug. 9
Advertised, Eng. News, Aug. 9 and 16.
Sept. 5. Curbing, Washington, D. C.....Aug. 23
Advertised, Eng. News, Aug. 23 and 30.
Sept. 5. Paving, etc., Patchogue, N. Y.....Aug. 30
Advertised, Eng. News, Aug. 30.
Sept. 6. Grading, Marietta, Ohio.....Aug. 30
Sept. 6. Broken stone, New York, N. Y.....Aug. 23
Sept. 7. Grading, etc., Washington, D. C.....Aug. 30
Advertised, Eng. News, Aug. 30.
Sept. 7. Paving, Woonsocket, R. I.....Aug. 30
Sept. 8. Sidewalks, Dixon, Ill.....Aug. 30
Sept. 10. Grading, etc., Uniontown, Ala.....Aug. 30
Sept. 10. Repairing pavement, New York, N. Y.....Aug. 30
Sept. 10. Grading, etc., Newark, N. J.....Aug. 23
Advertised, Eng. News, Aug. 23 to Sept. 6.
Sept. 11. Rock road, Winchester, Ind.....Aug. 30
Sept. 12. Paving, New York, N. Y.....Aug. 30
Sept. 12. Macadam, Haddonfield, N. J.....Aug. 16
Advertised, Eng. News, Aug. 16 to 30.

MISCELLANEOUS CONTRACTS.

Aug. 31. Scrap iron, Panama.....Aug. 9
Aug. 31. Drainage, St. Augustine, Fla.....July 19
Aug. 31. Dipper dredge, St. Augustine, Fla.....July 19
Aug. 31. Levee, Hillview, Ill.....Aug. 16
Aug. 31. Dredger, barges, tug, Paraguay (Foreign). Aug. 23
Aug. 31. 11,000 marble headstones, Boston, Mass.....Aug. 30
Aug. 31. Drain, Cornwall Center, Ont.....Aug. 30
Sept. 1. Excavating channel, Joliet, Ill.....Aug. 16
Advertised, Eng. News, Aug. 16.
Sept. 1. Air compressors, Charleston, S. C.....Aug. 16
Sept. 1. Storage works, Concully, Wash.....July 26
Advertised, Eng. News, July 26 to Aug. 16.
Sept. 4. Railway supplies, Siam (Foreign).....Apr. 26
Advertised, Eng. News, Apr. 26.
Sept. 4. Cars, Bangkok, Siam (Foreign).....May 31
Advertised, Eng. News, May 3 and 10.
Sept. 4. Railway ties, Ottawa, Ont.....July 5
Sept. 4. Wharf, Sacramento, Cal.....Aug. 23
Sept 4. Pier repairs, New York, N. Y.....Aug. 30
Sept. 4. Railway, Frederick, Md.....Aug. 30
Sept. 5. Dredging, Wilmington, Del.....Aug. 23
Sept. 5. Ditches, Babcock, Wis.....Aug. 16
Sept. 6. Dredging, Boston, Mass.....Aug. 23
Sept. 6. Ferry building, New York, N. Y.....Aug. 30
Sept. 6. Piers, Parkersburg, W. Va.....Aug. 30
Sept. 7. Ferry structures, New York, N. Y.....Aug. 30
Sept. 7. Ditch, Madison, Minn.....Aug. 30
Sept. 8. Lumber, Panama.....Aug. 30
Sept. 8. Sea-wall, Philadelphia, Pa.....Aug. 30
Sept. 10. Embankment, Boston, Mass.....Aug. 23
Advertised, Eng. News, Aug. 23 and 30.
Sept. 10. Lock and dam, Winnipeg, Man.....Aug. 16
Sept. 11. Timing devices, Washington, D. C.....Aug. 16
Sept. 11. Canals, ditches, Williston, N. Dak.....July 19
Advertised, Eng. News, July 19 to Aug. 9.
Sept. 11. Removing earth, boulders, Detroit, Mich. Aug. 23
Advertised, Eng. News, Aug. 23 to Sept. 6.
Sept. 11. Ditch, St. James, Minn.....Aug. 30
Sept. 12. Crematory building, Delaware City, Del. Aug. 16
Advertised, Eng. News, Aug. 16 to 30.
Sept. 12. Locomotives, Bangkok, Siam (Foreign).....May 31
Advertised, Eng. News, May 3 and 10.
Sept. 13. Quay, Spain (Foreign).....Aug. 30
Sept. 14. Dam, Columbus, Ohio.....Aug. 23
Advertised, Eng. News, Aug. 23 to Sept. 13.
Sept. 14. Levee, New Orleans, La.....Aug. 30
Sept. 15. Subway, tunnel, Minneapolis, Minn.....Aug. 30
Advertised, Eng. News, Aug. 30 to Sept. 13.
Sept. 15. Railway, Ecuador (Foreign).....Aug. 23
Sept. 15. Canal, levee, Grosse Tete, La.....July 26
Sept. 15. Irrigation ditches, Hazen, Nev.....Aug. 2
Advertised, Eng. News, Aug. 2 to 30.
Sept. 17. Dam, Hermiston, Ore.....July 26
Advertised, Eng. News, July 26 to Aug. 16.
Sept. 18. Portland cement, Portland, Ore.....July 26
Advertised, Eng. News, July 26 to Aug. 9.
Sept. 18. Naval supplies, Washington, D. C.....Aug. 30
Sept. 18. Light-house, Vallejo, Cal.....Aug. 23
Sept. 18. Telephone cable, Australia (Foreign).....Aug. 30
Sept. 18. Pneumatic tube service, Wash., D. C.....Aug. 30
Sept. 22. Dredging, Mobile, Ala.....Aug. 23
Advertised, Eng. News, Aug. 30 to Sept. 20.
Sept. 22. Elec. subway system, West Point, N. Y. Aug. 23
Advertised, Eng. News, Aug. 23 to Sept. 13.
Sept. 24. Jetty and dike, Wilmington, Del.....Aug. 30
Advertised, Eng. News, Aug. 30 to Sept. 20.
Sept. 24. Boiler, Wilmington, Del.....Aug. 30
Advertised, Eng. News, Aug. 30 to Sept. 20.
Sept. 24. Dredging, rock removal, New York, N.Y. Aug. 30
Advertised, Eng. News, Aug. 30 to Sept. 20.
Sept. 25. Steel dredge, 10 pontoons, Cincinnati, O. Aug. 30
Advertised, Eng. News, Aug. 30 to Sept. 20.
Sept. 26. River dredging, Chicago, Ill.....July 19
Sept. 26. Dredging plant, Chicago, Ill.....July 19
Sept. 28. Portland cement, Garden City, Kans.....Aug. 9
Advertised, Eng. News, Aug. 9 to 30.
Sept. 28. Dredging, New York, N. Y.....Aug. 30
Advertised, Eng. News, Aug. 30 to Sept. 20.
Sept. 27. Rock removal, New London, Conn.....Aug. 30
Advertised, Eng. News, Aug. 30 to Sept. 20.
Oct. 1. Ditches, Portland, Ore.....Aug. 9
Advertised, Eng. News, Aug. 9 to 30.
Oct. 1. Lock, Donaldsonville, La.....July 5
Advertised, Eng. News, July 5 to Sept. 27.
Oct. 3. Coal-handling plant, San Quentin, Cal.....Aug. 9
Advertised, Eng. News, Aug. 9 and 16.
Oct. 15. Steel sheds, Rys., Manila, P. I.....July 19
Advertised, Eng. News, July 19 to Aug. 30.

Sept. 20. Chinese laborers, Panama.....Aug. 23

CIVIL SERVICE EXAMINATIONS.

Sept. 5. Engineer, Fort McKinley, Me.....Aug. 9
Sept. 12. Engineer draftsman, Washington, D. C.....Aug. 30
Sept. 12. Aid, Washington, D. C.....Aug. 30
Sept. 14. Arch. Draftsmen, Chicago, Ill.....Aug. 30
Sept. 15. Bridge Draftsman, Albany, N. Y.....Aug. 30
Sept. 15. Bridge Designer, Albany, N. Y.....Aug. 30
Sept. 15. Rodman, Albany, N. Y.....Aug. 30
Sept. 15. Sanitary Chemist, Albany, N. Y.....Aug. 30
Sept. 15. County Engr., Albany, N. Y.....Aug. 30
Sept. 15. Engineer Draftsman, Albany, N. Y.....Aug. 30
Sept. 18. Struct. Iron Designers, Chicago, Ill.....Aug. 30
Sept. 19. Examiner, Washington, D. C.....Aug. 30
Sept. 20. Pitometer Expert, Chicago, Ill.....Aug. 30
Oct. 1. Construct. Engr., Washington, D. C.....Aug. 30

RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

ALASKA.—In Alaska, at the present time, there is practically only one steam railway in operation, which is a 55-mile road at White Pass. Congress, at its recent session, passed a law providing for the construction of other roads. The most important one, commercially, now under construction is the Alaska Central, which will run from Resurrection Bay north to the head of navigation on the Tanana River, the two points being approximately 463 miles apart. This project was noted in Engineering News on July 5. This road, when completed, will connect the Gulf of Alaska with the waters of the Yukon and the waters of the interior by an all-American route. Forty-six miles of railroad have already been constructed. Another important road under construction is that known as the Alaskan Short Line, to run from Iliamna, on the west of Cook Inlet and the head of the Alaska Peninsula, across the Kuskokwim to Anvik, on the Yukon. Other railroads are projected.

ALASKA SHORT LINE RY. & NAVIGATION CO.—We are officially advised that the ALASKA DEVELOPMENT & CONSTRUCTION CO., 604 Bailey Block, Seattle, Wash., has contract for building this railway. It is to be 369 miles long, from Iliamna Bay or Kamishak Bay to Anvik, on the Yukon River. Right-of-way is secured and preliminary surveys are made. J. T. Cornforth is Pres. and W. E. Smith, Ch. Engr., both at Seattle.

ARKANSAS, ANTHRACITE & WESTERN.—We are officially advised that contracts will be let about Oct. 1, on completion of location and necessary maps, plans and estimates, for building this road. The line will be about 65 miles long, extending from Fort Smith to Prairie View, Ark. Geo. W. Sturtevant, Fisher Bldg., Chicago, is Ch. Engr.

ATCHISON, TOPEKA & SANTA FE.—This company has bought the Arkansas Valley R. R. which is surveyed from Lamar, Colo., to Rocky Ford, 80 miles. Forty miles of road have been built and are in operation. Work on the remaining distance will be started at once, it is said. C. M. Ward is Gen. Mgr. and Ch. Engr. of the A. V. R. R. Co., at Lamar.

ATLANTA & CAROLINA.—Application has been made for a charter for this company, which proposes to build about 170 miles of line in Georgia. The line is to run from Atlanta or any other point in Fulton County and thence through De Kalb, Rockdale, Gwinnett and Jackson Counties via Lithonia, Conyers, Lawrenceville, Hoschton, Jefferson and Commerce, formerly Harmony Grove; also another line beginning in Fulton County and running west via East Point and College Park and then through Campbell, Coweta, Meriwether, Troup and Heard Counties via Fairburn, Palmetto, Newnan, Moreland, Grantville, Hogansville, Lagrange, West Point and Franklin. Either steam or electricity may be used. Capital, $50,000. The incorporators are M. T. Edgerton, M. Mason and W. E. Woods, of Atlanta, Ga.; J. R. Hosch, of Hoschton; Henry Braselton and L. F. Sell, of Jackson County; A. J. Almand, E. A. Kimmel, Jr., and T. J. Flake, of De Kalb County, and R. W. Tucker, of Rockdale County, Ga.

CANADIAN MIDLAND.—See Kansas City, Lawton & Pacific.

CAIRO & KANAWHA.—S. A. Moore, Gen. Mgr., Philippi, W. Va., advises us that meeting of directors will be held on Aug. 29-31 to let contract for 8-mile extension from Macfarlan to Smithville.

CALIFORNIA NORTHEASTERN.—D. D. Griffiths, Ch. Engr., Weed, Cal., writes us that this road is to be 62 miles in length, from Grass Lake, Cal., to Klamath Falls, Ore. Contracts have been let to ERICKSON & PETERSON, of Weed, Cal., and to E. B. & A. L. STONE, of Oakland, Cal. Right-of-way is practically all obtained. Surveys have been run. A. H. Naftzger is Pres., 626 Market St., San Francisco.

CINCINNATI, BLUFFTON & CHICAGO.—Township aid is being voted for this road in order that it may be extended from Bluffton north to Huntington, Ind., 25 miles, and from Portland south to Union City, Ind., 20 miles. Madison Township, Jay County, has voted $12,000, and Wayne Township, Randolph County, will hold an election on Sept. 11 to vote a $40,000 subsidy. The citizens of Huntington, where the shops are to be located, are expected to raise a bonus of $98,000. The road is now in operation from Bluffton to Portland, 30 miles. John C. Curtis is Gen. Mgr., at Portland, Ind.

FORT SMITH & WESTERN.—It is announced that this company has bought the St. Louis, El Reno & Western Ry., 42 miles long, running southwesterly from Guthrie. The consideration was $1,000,000. The consolidated line will extend southwest and connect with the Kansas City, Mexico & Orient Ry., going eventually to Mexico. Work on the extension will begin at once. It is understood that the taking over of this road is for the purpose of giving a direct outlet for coke in the rapidly increasing market in Mexico. W. E. Crane is Vice-Pres. and Gen. Mgr., Ft. Smith, Ark.

CHINA.—An interesting note about two extensive railway projects in China will be found in this issue, under "Foreign Contracts."

GILPIN RAILROAD.—Incorporated in Colorado to build a railroad from the mines in the vicinity of Central City, Colo., to Boulder County, via Black Hawk, the Fullerton upper mill, Apex, American City mine, Rollinsville, Hidden Treasure mine, Topeka mine, Saratoga mine, the Alice group. The company will take over the tramways projected by the Gilpin Tramway Company. The tramway will extend from Central City to Rollinsville. Capital stock, $200,000. Incorporators: O. L. Dines, H. W. Cowan and L. E. Rowland.

GRAND TRUNK PACIFIC.—City Council of Edmonton, Alta., has decided to give a bonus of $100,000 to this railway, in return for which this company agrees to establish in Edmonton its yards, workshops and other terminal facilities, including a station south of the Canadian Northern depot. The city will also give the G. T. P. Ry. a 35-ft. right-of-way which will cost $60,000. Work will commence as soon as contracts are signed. A. C. Dennis is Div. Engr., at Winnipeg, Man.

JENNINGS & SOUTHWEST LOUISIANA.—C. C. Cary, Secy., Jennings, La., writes that this proposed road which is to extend from Lake Arthur to Jennings Junction, La., on the Colorado Southern, New Orleans & Pacific, will be 35 miles long. Surveys have been made, but no date has been fixed for beginning the work of construction. Alba Heywood is Pres.; A. C. Wilkins is Vice-Pres., and G. A. Courtney, Treas., all of Jennings, La. Noted on Aug. 23.

KANSAS CITY, LAWTON & PACIFIC.—A press dispatch from Lawton, Okla., states that the Canadian Midland R. R. Co., with all its interests, was merged with what is known as the Kansas City, Lawton & Pacific Railroad Co., at a meeting of the stockholders in this city. A charter was issued to the K. C., L. & P. R. R. Co. in Oklahoma in July. The road is to run from Kansas City, Mo., to San Diego, Cal. The route is along the state line between Kansas and Missouri, through portions of Arkansas and Indian Territory to Wewoka, in the Seminole nation. From there a branch line is projected northeast through Wetumka. The road is to run thence through Texas, New Mexico, Arizona and California, to San Diego. It will be 1,600 miles long. Right-of-way is partly secured. Capital stock, $40,000,000. Incorporators: George M. Paschal, G. F. H. Barber, Guy C. Robertson, W. F. Barber and Walter C. Stevens, all of Lawton, Okla.; A. J. Brown, of Wewoka; C. M. Rawlings and Henry Briggs, of Kansas City; H. W. Scott, of New York, and E. A. Hill, of Muskogee, Ind. T. Headquarters, Lawton and Oklahoma City, Okla.

KENTUCKY MIDLAND.—We are officially informed that A. B. WOOD, Cottage Grove, Ore., has contract for building this line from Central City to Madisonville, Ky., 25 miles. Right-of-way is secured for ten miles and surveys made. M. M. Wheeler is Ch. Engr., Central City, Ky., and G. B. Hengen is Pres., Monadnock Block, Chicago.

LAKE CREEK & COEUR D'ALENE.—William Crooks, Vice-Pres., Portland, Ore., states that this company, recently incorporated, proposes to build a branch of the Oregon Railroad & Navigation from Lockwood, Wash., to Lake Coeur d'Alene, Idaho, a distance of 17 miles, of which eight miles will be in Washington and nine miles in Idaho. The line is now under survey. J. P. O'Brien is Pres., and George W. Boschke, Ch. Engr., both of Portland, Ore. Noted last week.

LONG ISLAND R. R.—The State Board of Railroad Commissioners has decided upon the abolition of six grade crossings on this railroad. The expense of this work will be borne one-half by the railroad company and one-quarter each by the state and the locality.

MARLBOROUGH R. R.—Incorporated in Michigan with a capital stock of $25,000, to build a railroad from a connection with the Pere Marquette R. R. to the village of Marlborough in Lake County. The directors are: Howard H. Parsons, Charles B. Parsons, William S. Duncan, Orla B. Taylor and Arthur D. Stansell, all of Detroit, Mich.

MANILA & SOUTHWESTERN.—W. M. Kerr, Ch. Engr., Jonesboro, Ark., states that track has been laid from Culberhouse to Lunsford, Ark., 5½ miles, on this road, which is being built from Culberhouse to Deep Landing, 8½ miles. The line will eventually extend from the latter point to Manila, 16 miles.

MOBILE, OHIO.—We are officially advised that H. C. HODGES & SON, Birmingham, Ala., have been awarded contract for new yards at Jackson, Tenn. Estimated cost, $100,000.

NEW YORK, NEW HAVEN & HARTFORD.—Contract for grading and embankment work in connection with the proposed abolishment of the Dudley St. grade crossing, Boston, on the Midland Division, has been awarded to J. K. RYAN, of New York, N. Y. The estimated cost of this work is $400,000. William Jackson is City Engr., Boston, Mass.

PORT ARTHUR & HOUSTON SHORT LINE.—Stockholders of the proposed Port Arthur & Houston Short Line will meet at Port Arthur, Tex., on Oct. 6 to vote on a proposed issue of $2,000,000 of bonds for building its line. A. O. Blackwell is Secy., at Port Arthur.

SOUTHERN EXTENSION RY.—Incorporated in Washington to build a railway in Oregon, extending from the mouth of the Des Chutes River along that river to Madras and thence to Bend, Ore., with a branch to Prineville. Capital stock, $1,250,000. Incorporators: J. C. Donnelly and Arvid Rydstrom, of Tacoma, Wash.

SANTA FE, LIBERAL & ENGLEWOOD.—Jesse G. Northcutt, Pres., Raton, N. Mex., states that surveys are being completed for this road, which is projected from Englewood, Kan., to Des Moines, N. Mex., but that the company is not prepared to make public any further information in regard to the project at this time. George T. Peart is Gen. Mgr., Raton, N. Mex. Noted last week.

SOUTHERN RY.—Company is reported to be considering plans to build double track from Asheville to Alexander, N. C., about twelve miles. W. B. Crenshaw is Engr., at Knoxville, Tenn.

TAYLOR, BRENHAM & HOUSTON.—E. K. Stinson and Harry Pennington, Civil Engrs., of Houston, Tex., have been engaged to make surveys for this proposed road from Taylor to Brenham, Tex., 68 miles. Eventually the road may be extended from Brenham to Houston. J. A. Thompson, of Taylor, is one of the projectors.

UNION PACIFIC.—Surveys are being made for the following lines: From Omaha southwest to Lincoln, Nebr., and thence northwest to Stromsburg to connect with the line under construction from Stromsburg to Central City; from Fremont, Nebr., north to Norfolk, Nebr., and Sioux City, Iowa; from Hastings to Kearney, Nebr.; from Beatrice northwest to Grand Island, Nebr.

WILKES & LINCOLN COUNTY.—Incorporated in Georgia to build a railroad from Washington, Wilkes County, northeast to a point on the Broad River and thence east to Lincolnton, 50 miles. Capital stock, $250,000. Incorporators: J. H. Fitzpatrick, T. M. Fitzpatrick, Benjamin Orme, J. T. Irvin, Jr., J. A. Benson, Jr., W. A. Slaton, Emmett Callan and F. H. Colley, of Wilkes County; W. G. Powell and C. L. Groves, of Lincoln County. Principal office, Washington, Ga.

WYNNE, NEWPORT & WESTERN.—This company has applied for a charter in Arkansas. This railway is to be about 50 miles long, to connect Wynne, Cross County, with Newport, Jackson County. Such a line would connect with the St. Louis & Southwestery Ry. at Fair Oaks, the St. Louis, Iron Mountain & Southern Ry. at Wynne and the Chicago, Rock Island & Pacific Ry. at Newport. The capital stock is $280,000, of which $90,000 has been subscribed. The officers are: O. N. Killough, Wynne, Pres.; Isaac Goldman, St. Louis, Vice-Pres.; W. H. Barnes, Wynne, Secy.; Sigmund Wolf, St. Louis, Treas., and M. M. Stuckey, Newport, Attorney.

ELECTRIC RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

GREAT BARRINGTON, MASS.—E. H. McHenry, Fourth Vice-Pres. N. Y., N. H. & H. R. R. Co, New Haven, advises us that a survey is in progress for extension of Consolidated Ry. Co.'s system from Great Barrington to Canaan, Conn., but no construction is yet authorized. Noted on Aug. 2.

AUBURN, N. Y.—The New York, Auburn & Lansing Electric Ry. Co. is offering through A. H. Flint & Co., New York City, $1,000,000 of 5% gold bonds, due June 1, 1935, but redeemable at 105 and accrued interest after 1915, to secure funds to build its proposed electric line from Auburn, N. Y., south through Fleming, Scipio, Venice, Genoa and Lansing, to Ithaca, 34.6 miles. The line is to be built for high speeds, and the company proposes to make extensive freight connections. A contract has been made with the Niagara, Lockport & Ontario Power Co. for power. The track will be laid with 75-lb. rails.

SYRACUSE, N. Y.—We are officially informed that LAWLER BROS. CONST. CO., 21 Park Row, New York, was recently awarded contract by the Rochester, Syracuse & Eastern R. R. Co. for building Section 8 of its line from Savannah to Port Byron, N. Y. Noted fully on Aug. 2. T. H. Mather, Ch. Engr., Syracuse.

PITTSBURG, PA.—Papers of consolidation of three railroads in different parts of Pennsylvania will be filed at Harrisburg, which will constitute the formal announcement of a project of prominent foreign bankers, associated with Joseph Ramsey, Jr., former Pres. of the Wabash R. R., to build a low-grade double-track railroad from New York to Chicago, by way of Pittsburg, which will cost about $150,000,000. Complete surveys have already been made, and it is expected that work preliminary to actual grading and construction next spring will begin this fall. It is expected that the road will require three years to construct. It is contemplated to operate it with electric locomotives from the beginning. It will be known as the New York, Pittsburg & Chicago Air Line, and will be 65 miles shorter to New York from Pittsburg than the Pennsylvania, and 108 miles shorter than the shortest line between New York and Chicago. It will not only be the shortest line through Pennsylvania, but it will cross the summit of the Allegheny Mountains 400 ft. lower than the Pennsylvania, and will have very easy curves and remarkably low grades for a mountainous line. Three corps of engineers have been in the field for three years, making exhaustive surveys and revising them to obtain better grades and shorter distances. Not only has a final location been made, but complete topographical maps have been prepared and every estimate made by the engineers for the construction of the road. The merger papers to be filed will provide for the consolidation of the Indiana, Clearfield & Eastern, the Allentown, Tamaqua & Ashland and the Brush Creek & Crow's Run railroads. It is expected that the nominal capital of the New York, Pittsburg & Chicago Air Line will be $1,000,000, and that it will not be increased until the foreign syndicate, which has pledged the cost of the road, is ready to turn the property over to the railroad company. It is intended to use the Loraine, Ashtabula & Southern, which is now approaching completion under the direction of Col. W. D. Holliday in Ohio, as a feeder for the new Chicago line, giving it an entrance into one of the most important mill towns of Ohio. The Indiana, Clearfield & Eastern and Allentown, Tamaqua & Ashland railroads form the main system in Pennsylvania. The Indiana, Clearfield & Eastern begins at Pittsburg and follows the Allegheny River up to a junction of that stream with the Kiskiminetas, opposite Freeport, and traces the Kiskiminetas up several miles to a point near Leechburg, where it crosses Crooked Creek, running up that stream through South Bend, Shelocta and Creekside. Thence it crosses the Black Lick Creek and crosses the Divide to the west branch of the Susquehanna River, which stream it spans at Cherry Tree. From there it passes through Westover near Irvona on the Bells Gap division of the Pennsylvania, through Beccaria, crossing the main Allegheny Mountains near Sandy Ridge. It is near this point that the Pennsylvania lines to Tyrone and Clearfield cro[ss t]he Allegheny Mountains.

The total distance from P[ittsb]urg to New York by the new line is 3[illegible] miles, or 65 miles shorter than the Penn[sylv]ania R. R. The absolute distance betwee[n Pi]ttsburg and New York by a perfect air li[ne is] 330 miles, or only 50 miles less than t[he ne]w Ramsey line. The Pennsylvania distan[ce is] 445 miles. The distance between New Yo[rk a]nd Chicago by way of the Ramsey line fr[om] actual surveys in Pennsylvania and O[hio] and closer reconnaissances is 805 to 815 [mile]s. An absolute air line between New Y[or]k and Chicago would be 748 miles, or [onl]y 57 miles less than the survey obtained by [M]r. Ramsey and his engineers. The Pennsy[lva]nia system has a distance of 913 miles betw[een] the same points, and the New York Cent[ral] mileage is 980, while that of the Erie R. [R.] is but one mile less than a thousand, or ne[arly] 200 miles longer than the new Keystone [air] line will be. Joseph Ramsey has sent ou[t t]he following signed statement here relativ[e t]o the new project: "We expect to make [a] start this fall and begin work next spring, hoping to complete the line between Pittsburg and New York within three years. The [c]ost of the line between Pittsburg and New York is estimated to be between $75,000,000 [an]d $100,000,000, all of which has been pledged, the bulk of it by foreign capitalists. It would not be wise for me to give details or names now. The line is not merely a preliminary survey, but a final location that has been revised three times. Three corps have been busy for three years. It is the best possible short low-grade line to be secured through Pennsylvania between Pittsburg and New York. The extension of the road west to Chicago from Pittsburg will be taken up when the line east to New York is completed."

FREDERICK, MD.—The Washington, Frederick & Gettysburg Railroad Co. will receive bids until noon, Sept. 4, to build about ten miles of its proposed line, which will be constructed in sections of eight miles each, and will be 23½ miles long. Contract is to be let by Sept. 10, it is said. Charles C. Waters, Secy. Noted on July 26th.

EASTON, MD.—Joseph B. Seth, Vice-Pres. of Peninsula Traction Co., states that this company has been incorporated to build a trolley line from Eastern Bay to the Atlantic Ocean. The route has not been definitely determined. The directors are Ernest P. Fink, of Philadelphia, Pres.; Joseph B. Seth, of Easton, Vice-Pres.; Robert A. Orbison, of Philadelphia, Treas.; Charles R. Wooters, of Easton, Secy.; Joseph B. Harrington, George W. Wilson, Walter Webber, Herman Fink, Theodore J. Hall, George H. Foley, William A. Kirby, Alfred Kemp, Charles B. Lloyd, Charles E. Simpson and James H. Warner. A press report says that the company will build a line from Tilghmans Island, on the Chesapeake Bay, to Ocean City, Md., with a branch from Easton to Cambridge Ferry; also northward from Easton to Chestertown, Md., and thence to Philadelphia and Baltimore.

NORFOLK, VA.—The Norfolk & Washington Air Line Ry Co. has awarded contract for the construction and equipment of its line from Washington, D. C., to Esperanza, Md., a distance of 64 miles, to D. E. BAXTER & CO., INC., 27 William St., New York City. G. S. Brantingham, Mgr. of Construction Dept., has just returned from the South, having made an examination of the property. The entire line will be laid with 70-lb. A. S. C. E. steel rails and standard ties. This line will give a direct outlet from Washington, D. C., and the West to Norfolk and the South, by a much shorter and cheaper route.

FAYETTEVILLE, N. C.—Thomas H. Sutton, Attorney-at-law, states that the committee of audit and finance of Fayetteville invites bids for a street railway franchise. Address R. L. Holland, member of the committee, Fayetteville, N. C.

COVINGTON, LA.—A survey is being made, according to a report, by Herndon & Whitbeck, Civil Engrs., of Covington, for the New Orleans & St. Tammany Ry. & Ferry Co.'s line to Ramsay, Covington, Abita Springs and Mandeville.

SHREVEPORT, LA. — The Shreveport Traction Co. will build a 3-mile extension to State Fair Grounds. L. M. Levinson is Gen. Mgr. and Supt.

LOUISVILLE, KY.—The Louisville & Eastern R. R. Co. has decided upon an extension of its line to Shelbyville and Frankfort, Ky. The Lagrange extension will be opened for traffic about October 1. In regard to the further extension of the line, President F. M. Fauvre has announced that the work of extension of the line through Shelbyville to Frankfort will be begun as soon as the Lagrange extension is finished. The charter is obtained, the right-of-way over certain parts of the 53 miles has been secured, and some parts of the survey between Shelbyville and Frankfort have been made. It is expected to have cars run from Louisville into Frankfort by next summer. The Frankfort line will branch off the Lagrange line at Beechwood, a point on the latter line on the Shelbyville pike between Beard and Lagrange. The tracks may parallel the pike into Shelbyville, although it has not been decided on which side of the road the tracks will be laid. It is probable, Mr. Fauvre states, that a branch line will be built from Shelbyville out through Eminence to New Castle. Noted on July 26.

CINCINNATI, OHIO.—The Cincinnati, Columbus & Toledo Railway Co., of Cincinnati, has been incorporated, with initial capital stock of $10,000, by Richard C. Swing, H. G. Gibson, Harry E. Frost, H. H. Hoffman and C. B. Matthews. The application for charter states that the company proposes to construct a steam or electric road connecting Cincinnati with Toledo by way of Columbus, passing through the counties of Hamilton, Clermont, Brown, Hyland, Clinton, Fayette, Madison, Pickaway, Franklin, Delaware, Marion, Wyandotte, Seneca, Sandusky, Wood, Hancock, Ottawa and Lucas. The parties mentioned are at the head of the Cincinnati & Columbus Traction Co., which

has in operation a line from Cincinnati to Hillsboro. It has been the announced intention of this company to extend to Columbus by way of Washington Court-House, and it now appears that the company proposes to extend on to Toledo.

YOUNGSTOWN, OHIO.—We are officially advised that the Youngstown & Southern Ry. Co. has placed a contract with the PATRICK JOYCE CONSTRUCTION CO., of Lima, Ohio, for grading and excavation work for its extension from Columbiana to Letonia. J. G. White & Co., of New York, have the contract for the engineering work and the electrification of the existing line between Youngstown and Columbiana. Fully noted on Aug. 2.

SHARON, OHIO.—The Wheatland St. Ry. Co. has been formed with $6,000 capital stock by R. Montgomery, of Youngstown; Charles Beckman, of Sharon; M. E. McCaskey and W. T. Burns, of New Castle, and S. C. Rovers, of New Bedford, Pa., to build a line from Sharon to Wheatland to connect with the Youngstown & Sharon line. The company is backed by the same people who own the Mahoning & Shenango Traction & Light Co.

DETROIT, MICH.—We are officially informed that the Detroit, Saginaw & Grand Rapids R. R. Co. will let contracts in near future for building its line. It is to be about 200 miles long, running from Detroit to Saginaw and to Grand Rapids. Surveys are made and right-of-way partly obtained. E. P. Sherman, Bancroft, Mich., is Pres., and Frank Farnham is Ch. Engr., at Ithaca, Mich.

OWOSSO, MICH.—J. A. Thick, of Detroit, has been granted a 30-year electric street railway franchise by the council. It was passed over the Mayor's veto by a vote of 7 to 2. The grant gives Mr. Thick a monopoly on the most prominent streets of the town for 30 years, and prevents anyone else putting in a street railway system during that time, it is said.

JOPLIN, MO.—J. J. Heim, of Kansas City, has been granted a franchise to construct a street railway line. It is estimated that cost will be $2,000,000.

ST. LOUIS, MO.—The United Rys. Co. of St. Louis will adopt a policy of reconstructing its lines and paving between the rails in advance of the building of new streets. The city has enacted an ordinance providing for the paving of Park Ave. between Jefferson and Grand Aves., and the United Railways Co. will soon begin its work of reconstruction over this route. It is the intention to work ahead of the street contractors. When the city passes an ordinance to pave a street the company will lay its track and finish paving before the street building is begun. Work is proposed on Tower Grove Ave., south of the railroad tracks and on California Ave. Work is progressing now on Cass Ave., west of Eighth St., between Franklin and Cass Aves.; Olive St. between Fourth and 13th Sts., and on Virginia Ave., south of Meramec St. It is said that company will rebuild 25 or 30 miles of its system each year. Richard McCulloch is Asst. Gen. Mgr., 3869 Park Ave., St. Louis.

CLEBURNE, TEX.—It is officially announced that Cleburne needs a street railway, and would take at least half of the stock necessary to build one or would make donation to any responsible corporation that would finance the plan. An interurban railway to Glen Rose, 24 miles, is also proposed. M. D. Miller is reported to be interested.

BOISE, IDAHO.—W. E. Pierce, Pres. of Boise & Interurban Ry. Co., Ltd., advises us that capital is secured and right-of-way for this line which is to be extended from Boise to Nampa, 20 miles. Total length of the railway, including line to Caldwell and in city of Boise, will be 56 miles. Contract will be let about Sept. 10 or 15 for remaining 25 miles. F. H. Knox is Ch. Engr.

FORT WILLIAM, ONT.—The City Council will submit a by-law to be submitted to the citizens on question to build an electric street railway through the town, to be operated by the city or leased to a company.

LIGHT AND POWER PLANTS.

The names of parties awarded contracts are printed in capital letters.

MILO, ME.—FRED. W. BOLSTER has been awarded the contract for the construction of the new power station of the Milo Electric Light & Power Company. W. S. Owen is Gen. Mgr.

ORANGE, MASS.—The contracts for the new equipment for the Orange Electric Light Co. have been awarded. A. W. Hubbard is the official in charge of the installation.

HARTFORD, CONN. — The Evansville Light Co., it is reported, has been incorporated in the city for the purpose of furnishing light, heat and power. Capital, $3,000,000. Incorporators, H. Clay Dingee and G. Richard Nichols, of Philadelphia, Pa., and Chas. E. Perkins, of Hartford.

ALBANY, N. Y.—Bids are asked until noon, Sept. 22, by J. G. White & Co., Inc., 49 Exchange Pl., New York, for installing an underground transmission line at Executive Mansion. (Advertised, Engineering News.)

HEMPSTEAD (L. I.), N. Y.—B. M. Van Dorn, of Hempstead, writes that the proposed electric light plant for Hempstead, will cost about $70,000.

WOODBURY, N. J.—A special bond issue will soon be made by City Councils, care of John E. Estell, for the purpose of erecting an electric light and gas plant. Engineer has not yet been selected.

WADDINGTON, N. Y.—The New York & Ontario Power Co. has made application to the State Commission of Gas and Electricity for a certificate of authority to transact business and for consent to issue $2,000,000 of bonds and $2,000,000 in stock. The company proposes to purchase and develop a dam and water power across the St. Lawrence River from the Isle au Rapid Plat to the south side of the St. Lawrence River to furnish electricity for power and light to Waddington and Ogdensburg, about 20 miles distant, and will also furnish power for the tin plate plant at Morrisburg, Ont.

JERSEY CITY, N. J.—Papers incorporating the Western Power Co., with a capital of $18,000,000, were filed recently in the office of County Clerk John Rotherham at Jersey City. The incorporators are Adrian H. Larkin, of 54 Wall St., New York, and Harley P. Wilson and Augustus C. Doan, of 243 Washington St., Jersey City. The stock will be divided into $6,000,000 preferred and $12,000,000 common.

AMBLER, PA.—The contract for the erection of a factory and power-house for W. K. Wampole & Co. has been awarded to STEWART BROS., 2526 North Orkney St., Philadelphia. It is to be a 3-story building, 50 x 115 ft. Power and special equipment will be installed.

CHESTER, PA.—Capitalists, represented by John L. Garrett, a local attorney, desire to erect a $100,000 electric light plant in this city, and in a proposition to the light committee of councils they offer to turn the plant over to the city at the expiration of ten years. The Beacon Light Co., a private corporation, now has the contract for lighting the city.

SHARON, PA.—Engineers from the Westinghouse Co. have been in this city and all over the lines of the electrical company inspecting the lines, with a view to begin the work of improving the system. About $1,000,000 will be spent in the work.

WASHINGTON, D. C.—Bids are asked until Sept. 18 at the Bureau of Supplies and Accounts, Navy Dept., Washington, D. C., for erecting on the light-house reservations at Table Bluff, Cal.; Cape Blanco, Cal., and North Head, Ore., a combined operating and dwelling-house, power-house, oil-house, water tank, walks, piping, etc., and for the transportation from the navy yard, Mare Island, Cal., and erecting on the sites wireless telegraph masts and rigging. H. T. B. Harris, Paymaster-Gen., U. S. N.

Bids are asked until Sept. 4 at the Bureau of Supplies and Accounts, Navy Dept., Washington, D. C., to furnish at the Navy Yards, at Portsmouth, N. H.; Boston, Mass.; Newport, R. I.; New York, N. Y.; League Island, Pa.; Annapolis, Md.; Washington, D. C., and Norfolk, Va., a quantity of naval supplies as follows: Schedule 102—Batteries; electrical supplies; ties; rails; asphalt paving blocks, etc. Schedule 104—Testing machine, etc. Schedule 106—Pumps. H. T. B. Harris, Paymaster-Gen., U. S. N.

PEARISBURG, VA.—The Giles County Electric Railway Co. will establish an electric light and power plant near here. Charles T. Painter, Pres.; T. J. Pearson, Vice-Pres.; M. P. Farrier, Secy. and Treas.

WINCHESTER, VA.—The Winchester and Washington City Electric Co., capital $300,000, has been organized here to furnish power, heat and light. S. H. Hansbrough is Pres. and Shirley Carter, Secy. and Treas.

NATIONAL SOLDIERS' HOME, VA.—B. A. Beeson, Treas., writes that the Crook-Horner Co., of Baltimore, Md., has been awarded the contract for furnishing and installing three 150-HP. steam boilers for $7,500.

BLACKSBURG, VA. — The Blacksburg Power & Supply Co. will soon erect an electric light plant and is in the market for a gas producer plant, machinery for an ice plant and electrical machinery. D. H. Heister is Mgr.

MANASSAS, VA. — It is reported that bonds to the amount of $50,000 are to be issued for an electric light plant, water-works, and macadam streets, and it is reported that bids for this work will be received until September 16. O. E. Newman is Chn.

CHARLESTON, W. VA.—The Kanawaha Water & Light Co. will construct a plant at this place. R. V. West, Gen. Mgr.

CHARLOTTE, N. C.—The Spartanburg Electric Power Co. will spend about $1,000,000 in the development of power plants on three sites in this section. One of the sites is Nesbit Shoals in Spartanburg County, S. C., and the others are in Cherokee and Cleveland Counties, N. C. R. C. Crawford, J. Slack and F. H. Dravo, of Pittsburg, Pa., are interested.

CHARLESTON, S. C.—The Bureau of Yards and Docks, Navy Dept., Washington, D. C., has awarded a contract for the construction of a power-house building at the Charleston Navy Yard to the SIMONS-MYRANT CO., of Charleston, at $140,270. Bids were opened July 28.

AUGUSTA, GA.—It is reported that the City Council has granted the Anthony Shoals Power Co. a 30-year franchise to use the streets of the city for its lines.

ACKWORTH, GA.—J. B. McCREARY & CO., of Atlanta, have been awarded the contract for constructing water-works and an electric light plant at Ackworth.

COMMERCE, GA.—CARTER & GILLESPIE have been awarded the contract for the construction of the electric light plant for the Harmony Grove Mills. A 70-KW. General Electric alternator and a 100-HP. Harrisburg engine will be installed in the plant. M. Sears is Supt.

MOBILE, ALA.—Bids are asked by Patrick J. Lyons, Mayor, until Oct. 1 for the erection and equipment of a municipal electric light plant on city property, of 450-KW. divided into three units; also 600 arc lamps and power line complete, together with main station, stack and substation. Plans and complete specifications can be had on application.

CROWLEY, LA.—Geo. W. Horton, City Clk., writes that bids will be received about Oct. 5 for water-works, an electric light plant and other municipal improvements at South Crowley. About $100,000 of bonds will be issued for the work.

YOUNGSTOWN, OHIO.—Solomon S. Davis, Councilman, has submitted to the City Council estimates on the cost of a municipal lighting plant. He estimates that a plant having a capacity of 500-HP. of engines, generators and boilers, 500 arc lamps, 5,000 poles, 150 miles of wire and other necessary equipment, would cost $91,000 exclusive of buildings and land. He will endeavor to get before the people a proposition to spend $150,000 in the erection of a municipal plant.

AUBURN, IND.—A new gas plant is to be erected here. The main building is to be 45 x 110 ft., of brick. The plant is to be erected by a company recently incorporated under the name of The DeKalb Fuel, Light & Power Co. The incorporators are: John Ross McCulloch, Cashier of the Hamilton National Bank; O. N. Guldlin, of the Western Gas Construction Co.; and Chas. H. Prinz, a salesman of the concern. Capital, $100,000.

EVANSVILLE, IND.—Bids are asked by the Commissioners of the Southern Indiana Hospital for the Insane, at Room 81, State House, Indianapolis, until noon Sept. 10, for heating and power equipment for the hospital. Stella Myers, Clk.

CARMI, ILL.—The citizens are contemplating rebuilding the lines of the municipal electric lighting system. Chas. D. Faulkner, Supt.

HAVANA, ILL.—Robert F. Merke has asked for a franchise for a gas company to furnish gas for lighting and heating purposes.

LA CROSSE, WIS.—The Chicago State Bank and the Trowbridge & River Co., of Chicago, have bought the $3,000,000 bond issue of the La Crosse Water Power Co. It is the intention of the company to build an immense water-power plant at Mormon Riffles, on the Black River, to supply Ulinona, La Crosse, Black River Falls and other cities with light and power.

HATFIELD, WIS.—The La Crosse Water Power Co. is contemplating the development of a water power at Hatfield. The work includes the construction of a dam at Hatfield and transmission lines to Winona, Minn., and La Crosse, Wis., a distance of 50 miles to each city, and the complete installation of a power plant. It is reported that the company has $3,000,000 available for the project. W. J. Ferris, of Champaign, Ill., is to be manager of the company.

KENOSHA, WIS.—The Milwaukee Engineering Co., of Milwaukee, has completed plans and estimates for the proposed municipal lighting plant, to consist of power-house, a 130-KW. alternator, an exciter, three 100-HP. water tube boilers, with stokers, 300 nominal 2,000-c. p. arc lamps, 300 lamp hangers with pulleys, and 2,200 iron braces. The cost of the proposed plant will be about $30,000.

MILWAUKEE, WIS. — The ELOMKUN ELECTRIC CO., has been awarded by the County Trustees for the Almshouse and County Hospital, the contract for the central heating and lighting plant, for $18,040.

SUPERIOR, WIS.—Estimates are now being received for the construction of an electric lighting plant for the city.

DEERFIELD, KAN.—The contracts for the furnishing of power and pumps for the United States irrigation project have been awarded. The contract for furnishing the machinery for the power plant has been awarded to the D'OLIER ENGINEERING CO., 121 South 11th St., Philadelphia, Pa., at $46,300. The contract for pumps and motors to HERRION & HUBBELL, Chicago; cost, $35,000.

WILLISTON, N. DAK.—Complete list of bids received on Aug. 14, at the office of U. S. Reclamation Service, Williston, for installing steam and electric pumping plants and electric generating and transmission apparatus, including three pumping stations containing centrifugal pumps, driven by engines and motors aggregating 1,200 HP.; also necessary buildings and three miles of transmission lines will be given under "Contract Prices" next week. Bids for this work were advertised for July 9, but the time of receipt of bids was postponed. Advertised in Engineering News on July 12.

CAMERON, MO.—John Abbott Clark, city attorney, writes that the proposed improvements to the water and electric light plant will cost about $9,000.

JEFFERSON CITY, MO.—The Jefferson City Light, Heat & Power Co. contemplates rebuilding its boiler plant and outside lines. P. A. Bertrand is Mgr.

ST. CHARLES, MO.—The St. Charles Electric Light & Power Co. will rebuild its plant in the near future, and will change the frequency from 133 to 60 cycles. Charles Z. Pierson is Mgr.

CLINTON, MO.—Bids are asked until Sept. 18 by G. V. Berry, City Clk., for furnishing material and constructing an electric light plant, including power house. Burns & McDonnell, Kansas City, Mo., are the Engrs.

WYNNE, ARK.—The city contemplates changing the system of the municipal electric lighting plant from direct to alternating current and will extend the electric light lines and water mains into new districts. The change will necessitate the purchase of a 225-HP. engine and an alternating current generator of 150-KW. capacity. The present street lighting system will be replaced by alternating current arc lamps. John M. Covey is Mgr.

TEXARKANA, ARK. — The city council has granted a franchise to W. P. Harrison and associates to erect an electric plant. J. B. King is the local representative of the company.

COLLEGE STATION, TEX.—Extensive improvements are contemplated for the Agricultural & Mechanical College electric and water plant, an electrically operated pump for water plant, cooling tower for ice plant, water and electric meters and storage battery for day load will be installed. The system will be rewired inside and out. N. H. Brown is Mgr.

LEADVILLE, COLO. — A franchise has been granted to Walter W. Davis to construct and operate an electric power plant and system.

CANON CITY, COLO. — The Colorado Light & Power Co., of Canon City, is reported to have acquired a controlling interest in the plant of the La Bella Mill, Water & Power Co., of Goldfield, which supplies electric power in the Cripple Creek District. It is stated that the capacity of the Canon City plant will be greatly increased.

SPOKANE, WASH.—Official announcement is made that the Pend d'Oreille Development Co., composed of Spokane capitalists, headed by David T. Hamer, will invest between $1,000,000 and $1,500,000 in the development of 30,000 HP. by harnessing the Pend d'Oreille River near here. Congress has passed a bill permitting the company to dam the river for the purpose of developing power. D. T. Hamer announces that within the next two years his company will spend $500,000 to $750,000 on the Big Falls, two miles below here. Power is to be transmitted to various towns in the Metaline country. Experts have reported to the company that more than 50,000 HP. can be developed.

VANCOUVER, WASH.—Articles of incorporation have been filed for the Independent Light & Water Co. The capital stock is fixed at $500,000, and among the incorporators are E. W. Hall, of Portland, Frank W. Waters, of Salem, A. Welch, of Portland, John H. McNary, of Salem, and J. A. Webber, of this city. The object of the corporation is to deal in electric and gas light fixtures.

GEORGETOWN, WASH.—The Seattle Lighting Co. has made application for a franchise to build a gas manufacturing plant and to lay pipes in the city of Georgetown with which to supply gas to residents of that place for light and heat. A 25-year franchise was asked for. The City Council received the application with favor.

REDLANDS, CAL.—A large irrigation project promoted by San Francisco and Redlands capitalists includes a plan to turn the waters of Strawberry Creek into Lake Hemet, using them to generate electricity for supplying Hemet, the Webster Ranch and Oak Cliff. Preliminary surveys for both the cement ditch and the transmission lines have been made by Rasor Brothers, of San Bernardino, under the supervision of Manager P. N. Myers, of the Hemet Water Co. A 7-mile canal will have to be constructed.

VENTURA, CAL.—The Ventura Water, Light & Power Co. contemplates extending its lines into the suburban districts, and will build a transmission line for light and power, having a potential of 33,000 volts. James E. Barker is Mgr.

OROVILLE, CAL.—It is reported that the City Trustees have decided to establish a municipal water, gas and electric plant.

OAKLAND, CAL.—The Oakland City Light & Power Co. is contemplating installing a 125-KW. alternator and a new enclosed alternating-current arc lamp system. R. N. Parrett is Mgr.

RED BLUFF, CAL.—The Siskiyou Electric Light & Power Co. is reported to be preparing to install 3 new transformers, an additional generator and a water wheel; it is also proposed to construct a dam 120-ft. high.

SALT LAKE CITY, UTAH.—Arrangements have been made by the Salt Lake Public Service Co. for the construction of a heating and power plant in this city.

SALT LAKE CITY, UTAH. — Frank J. Wescott has purchased a site on Commercial St., where he will install a large lighting and power plant.

LEWISTON, IDAHO.—It is reported that the Idaho Gas Co. is incorporated with a capital of $200,000, and place of business, Lewiston. The incorporators are Isaac W. Anderson, E. H. Gimper, C. H. Berryman and others. It proposes manufacturing illuminating and fuel gas for distribution in Washington and Idaho.

TORONTO, ONT.—Bids are asked until Sept. 3 by the Delhi Light & Power Co., for (1) turbine water wheel governor, etc.; (2) generators, exciters, switch panel, etc.; (3) 2½ miles of transmission line; (4) distribution line. John S. Fielding, C. E., Consult. Engr., 15 Toronto St.

BRIDGES.

The names of parties awarded contracts are printed in capital letters.

MONSON, MASS.—It is reported that the W. N. FLYNT GRANITE CO. has secured the contract for constructing a bridge to replace the Reynolds Bridge on South Main St., at $13,000. C. G. & G. C. Gardner, of Springfield, are Engrs. H. M. Smith is Chn. Bd. of Selectmen.

CAMBRIDGE, MASS.—It is reported the City Council has adopted a resolution appropriating $150,000 for work remaining unfinished on the Cambridge Bridge.

NEW YORK, N. Y.—This city may erect a bridge to cost $2,500,000 between Amsterdam Ave., at 165th St. and Woodycrest Ave.

WATERFORD, N. Y.—Plans for a bridge over the Barge Canal at West Waterford to be built by the Delaware & Hudson Co., James McMartin, Ch. Engr., have been approved. Work will start at once on the abutments. Estimated cost, $67,000.

ROCHESTER, N. Y.—EDWARD F. MOORE, Burlington, Vt., has secured contract to build a bridge over the Salmon Falls River, connecting North Rochester with Lebanon. Edwin A. Fisher is City Engr.

PITTSBURG, PA.—It is reported that the Welwood Ave. bridge will shortly be torn down and will be replaced by a modern structure. James W. Clark is Dir. Dept. Pub. Wks.

LANCASTER, PA.—R. A. MALONE has secured contract for building concrete dam, bridge piers and superstructure, at $19,880, to be completed in 60 days. The only other bid received was from Reilly & Riddle, at $20,426. F. H. Shaw is Engr. Sewer and Water Comrs.

CARBONDALE, PA.—Bids are asked until 8 p. m., Sept. 10, by the City of Carbondale, H. T. Williams, Clk., for building a reinforced concrete bridge over the Lackawanna River, at Seventh Ave. (Advertised, Engineering News.)

EAST BERKLEY, PA.—The County Commissioners have decided to rebuild the Berkley bridge over the Willow Creek, at East Berkley, which was badly damaged by the recent floods. N. M. Davis, County Engr., has been directed to prepare plans and specifications for a 340-ft. arch concrete structure.

WASHINGTON, D. C.—Bids were received Aug. 18, at the office of the Commissioners of the District of Columbia, Washington, D. C., for constructing the railing for the Connecticut Ave. bridge. Bids were as follows: Richey, Browne & Donald, 1 Madison Ave., New York, $16,000; Ralph C. Hoag, 1,136 Catherine St., Philadelphia, Pa., $15,-600; John Williams, 556 West 27th St., New York, $30,580; Fred S. Gichner, 1214 G St., N. W., Washington, $14,036; Hecla Iron Works, 118 North Eleventh St., Brooklyn, N. Y., $18,000; J. L. Mott Iron Works, Home Life Bldg., Washington, $15,517.

WASHINGTON, D. C.—Bids are asked until noon, Sept. 15, by the Commissioners of District of Columbia, Washington, for constructing plate-girder bridge on K St., over Rock Creek and the Chesapeake & Ohio Canal, between 28th and 29th Sts., N. W. (Advertised, Engineering News.)

PARKERSBURG, W. VA.—Bids are asked until Sept. 6 by the Parkersburg & South Side Bridge Co., Parkersburg, for constructing piers 1, 2, 3 and 4. Estimated cost, $30,000. C. H. Shattuck is Pres.; Joseph P. Horstman is Ch. Engr. Parkersburg, Marietta & Interurban Ry. Co.

WOODBURY, GA.—Bids are asked until Sept. 18, by the Board of County Commissioners, F. V. Biggers, Chn., at Greenville, for constructing a steel bridge over Red Oak Creek, near Woodbury.

MAYDAY, GA.—Bids are asked until Sept. 3, by the Board of County Commissioners, J. W. Lowell, Chn., at Statenville, for constructing a steel bridge across the Alabama River near Mayday.

BATON ROUGE, LA.—It is reported that the construction of a bridge across the Mississippi River at Baton Rouge is reported as proposed by the Southern Pacific Co., New York office, 120 Broadway; Texas & Pacific Ry. Co., B. S. Walthen, Ch. Engr., Dallas, Tex., and the Colorado Southern, New Orleans & Pacific R. R. Co., B. B. Gordon, Ch. Engr., Beaumont, Tex. The width of the Mississippi River at Baton Rouge during high water is approximately 3,495 ft., while at low water the river is about 2,636 ft. wide; maximum depth at high water, 88½ ft.; low stage, 53 ft.

MEMPHIS, TENN.—Bids are asked until Sept. 3, by the Secretary of the Shelby County Levee Commission, Odd Fellows Bldg., Memphis, for raising bridge over Loosa Hatchie River on Randolph Road, near Woodstock, and raising steel span of Nonconnal Bridge on Horn Lake Road, at New South Memphis. Charles A. Barton is Engr. Comn.

MEMPHIS, TENN.—Bids are asked at the office of the City Registrar, until Sept. 6, for constructing a reinforced concrete bridge over Bayou Gayoso on Front St.

KNOXVILLE, TENN.—It is reported that W. J. OLIVER & CO., of Knoxville, have the contract for constructing steel bridges to be erected across Tennessee River, east of Knoxville. Cost about $250,000. The work will be done for the Southern Ry., B. Herman, Ch. Bridge Insp.

TOLEDO, OHIO.—It is reported that HENRY STREICHER has been awarded contract by the County Comrs. for building the Detroit Ave. bridge, in West Toledo.

COSHOCTON, OHIO.—The County Commissioners will readvertise for bids shortly for the Big Island bridge. It is estimated that the bridge will cost $19,000.

CHILLICOTHE, OHIO.—Bids are asked until noon, Sept. 17, by the County Auditor, at Chillicothe, for constructing a 2-span steel bridge, and a 66-ft. span. B. H. Walker is County Surv.

PERRY, OHIO.—Bids are asked until noon, Sept. 20, by the Commissioners of Allen County, George Feltz, Audr., for building a low truss steel bridge, 54 ft. long, over the Areglaize River, in Perry Township.

ROSEVILLE, OHIO.—The contract for constructing superstructure of highway bridge over South Fork of Jonathan Creek at First St., Roseville, bids received Aug. 13, has been awarded to E. J. LANDON, of Canton, at $11,342. L. E. Brelsford is County Audr.

BUCYRUS, OHIO.—The Hocking Valley Ry. Co. intends to erect a $2,000,000 bridge over the Ohio River at Point Pleasant. The bridge will be of steel and will be built in sections. F. B. Sheldon is Ch. Engr., Cleveland; M. S. Connors is Gen. Supt., Columbus.

BROWNSTOWN, IND.—Bids are asked until Sept. 13, by the Board of County Commissioners, at the office of H. W. Wacker, County Audr., for constructing 13 steel bridges from 16 to 60-ft. span.

ROCKVILLE, IND.—Bids are asked by the Commissioners of Parke County until noon, Sept. 3, for construction of a wagon bridge over Big Raccoon Creek, in Union Township, known as the Ferndale Bridge; and for construction of a concrete arch over Roaring Creek, in Township 6, length of span 60 ft., with 16-ft. roadway. Bidders must bid separately on the above. Henry Grubb is County Audr.

MOUNT VERNON, IND.—We are officially advised that AMOS POE, Evansville, Ind., has secured contract for constructing culvert over Mill Creek, at $8,900. A. L. Long is Des. Engr.; Silas G. Howard is County Audr.

KOKOMO, IND.—The Board of County Commissioners has ordered the County Engineer to prepare plans for construction of three bridges in Howard County. One is to span Wildcat Creek at Claffin's Crossing, one is to be arch bridge on Courtland Ave. over Petis Run, and the third is to be an arch bridge over the same stream on Palmer St. The estimated cost of these bridges is $2,000, $4,300 and $7,000, respectively.

BROWNSTOWN, IND.—Bids are asked by the Commissioners of Jackson County until 1 p. m., Sept. 5, for the construction of 13 bridges in Jackson County.

BLOOMFIELD, IND.—Bids are asked by the Commissioners of Greene County until 2 p. m., Sept. 5, for constructing one new bridge and repairing two bridges.

PORTLAND, IND.—Bids are asked until 10 a. m., Sept. 4, by the Commissioners of Jay County for constructing 5 bridges.

MOUNT PLEASANT, MICH.—The HURON BRIDGE CO., of Ontario, has been awarded the contract for building the cement bridge over the mill race at Mount Pleasant. Price, $3,150.

ROCK ISLAND, ILL.—Congress has appropriated $125,000 for constructing bridge and viaduct between Rock Island City and Rock Island Arsenal.

MILWAUKEE, WIS.—F. O. Phelps, Clerk of Milwaukee County, has given notice that he will receive competitive designs, specifications and estimates until Oct. 15 for a viaduct to be built over Menomonee Valley, along the line of Grand Ave.

JANESVILLE, IOWA.—The contract for constructing a steel wagon bridge across the Shellrock River, west of the town, has been awarded to H. S. WETHERELL, of Chicago, at $4,400.

FORT RIPLEY, MINN.—Bids are asked until Sept. 4, by A. H. Mahlum, County Audr., at Brainerd, for constructing a 60-ft. span steel bridge, 16 ft. wide, over Nokay Sebic River, near Fort Ripley.

DULUTH, MINN.—The DULUTH-SUPERIOR BRIDGE CO. has secured contract to rebuild wrecked span between Duluth and Superior for the Great Northern Ry. Line. A. H. Hogeland, Ch. Engr., at St. Paul, Minn.

SMITHVILLE, ARK.—L. T. Andrews, of Smithville, who is interested in project to build an electric railway from this place to Ravenden Springs, writes us that matter is yet in formative state.

LA GRANDE, ORE.—Union County intends to erect five new bridges. At least three will be of steel, and possibly all will be constructed of that material.

SCOTTS MILLS, ORE.—Bids are asked until Sept. 7, by the Joint Courts of Commissioners of Marion and Clackamus Counties, at the Court House, Salem, for constructing a Howe truss bridge across Butte Creek, at Scotts Mills. John H. Scott is County Judge, Marion County, Salem.

SPOKANE, WASH.—Bids are asked until 2 p. m., Sept. 15, by the Board of Public Works, J. T. O'Brien, Secy., for constructing a 2-span reinforced steel concrete bridge across north channel of Spokane River, each span to be 110 ft. long, and a single reinforced steel concrete bridge across south center channel of Spokane River, to have 125-ft. span, both bridges at Howard St. and to have 40-ft. roadways and two 10-ft. sidewalks; also for a reinforced steel concrete double or Y bridge across south center channel of Spokane River at Howard and Havermale Sts., to have 115-ft. span, 51-ft. roadway and two 12-ft. sidewalks.

The following estimates have been submitted for new city bridges at Spokane: Havermale St., 110 ft., reinforced concrete, $19,800, steel, $16,500; Latah Creek bridge, steel and wood, $23,000; Washington St. bridge, 220 ft., reinforced concrete, $39,600, steel, $33,000; Mission Ave. bridge, 312 ft., reinforced concrete, $56,160, steel, $46,800; Howard St. bridge, No. 2, 110 ft., reinforced concrete, $19,800, steel, $17,500; Howard St. bridge No. 4, reinforced concrete, $41,500, steel, $34,500. There is also an estimate for a viaduct leading over the railway tracks on North Washington St. amounting to $103,000. Charles McIntyre is City Engr.

TACOMA, WASH.—We are officially advised that on Aug. 17 the PUYALLUP FUEL CO., of Puyallup, Wash., secured contract to construct bridge across Marshall River, in Township 16, North. I. M. Howell is County Audr.; George Thornton, Tacoma, is Des. Engr.

OAKLAND, CAL.—Bids are asked until Sept. 4, by John P. Cook, Clk. Bd. County Supervisors, for constructing concrete and steel bridge near Sunol, in Pleasanton Township.

SAN DIEGO, CAL.—The contract for the construction of the bridge over the Switzer Canyon has been sub-let by John E. Clouse, the contractor, for the 13th St. grading, to COTTON BROS., of Oakland. The amount of the sub-contract is $30,000.

MARYSVILLE, CAL.—It has been decided to build a combination railroad and wagon bridge across Feather River, between Marysville and Yuba City. The counties will appropriate $20,000 each, and the Northern Electric Co. $60,000.

HAWKSHAW, N. B.—Bids are asked until Oct. 15 by C. H. La Billois, Dept. Pub. Wks., Fredericton, N. B., for building masonry substructures and approaches to Hawkshaw bridge over the St. John River.

DOAKTOWN, N. B.—Bids are asked until Sept. 3, by D. Pottinger, Gen. Mgr. Intercolonial Ry., for constructing bridges at Doaktown, Boiestown, N. B., and at Boyer River, near St. Charles Junction, Que. T. C. Burpee is Engr. Maintenance of Way and Works.

MONTREAL, QUE.—The construction of a cantilever bridge to connect Montreal with the south shore of the St. Lawrence River has been commenced and will be completed in two years. The bridge will have a main span of 1,500 ft., while the actual bridge length will be about 2½ miles. The structure will be a double decker, and will afford accommodation for three railways, and two trolley car lines, two roadways and two footpaths. The railways will occupy the whole upper deck.

It is reported that the Canadian Pacific Ry. Co., F. P. Gutelius, Asst. Engr., Montreal, will soon call for bids for renewing all bridges on its main line between Montreal and Quebec. This means removal and renewal of about 48 bridges, which will be reconstructed of steel. Estimated cost, $1,000,-000. J. W. Leonard is Asst. Gen. Mgr., Montreal.

HEATHCOTE, ONT.—Bids are asked until Sept. 3, by J. M. Thomson, Bognor, Ont., for building two concrete abutments for bridge over Beaver River. J. Rutherford is County Clk., Owen Sound.

WINNIPEG, MAN.—The sum of $175,000 will be required to build the new bridge over the Red River, to connect Elmwood with North End. According to the estimate submitted to the Board of Works by H. N. Ruttan, City Engr., the bridge is to cross at Redwood Ave., will be 650 ft. long, and will have four spans, resting on piers. The first, third and fourth spans will each be 150 ft. long, but the second, counting from the city side, will be 200 ft. long, and will be a swing span. Besides two driveways and two walks, the floor of the bridge will carry double tracks for street cars. The contract will be let in two sections, one for the superstructure and the other for the substructure. The board has decided to call for bids for the substructure at once and for the structure later on.

BUILDINGS.

The names of parties awarded contracts are printed in capital letters.

GREENWICH, CONN.—William Rockefeller will erect a $500,000 residence here.

ALBANY, N. Y.—The New York Central R. R. Co. has plans under consideration for the construction of a new building in the station yard here. It is to be 86 × 86 ft. Estimated cost, $107,000.

The Albany Institute & Historical & Art Society has awarded the contract for the erection of its new building on Washington Ave. to STEPHAN A. CARR & SON, of this city, for $80,000. Fuller & Pitcher, of Albany, are Archs.; C. E. Lindsay, Division Engr.

BUFFALO, N. Y.—The New York Central R. R. Co. has filed plans for a freight house and office building to be erected here. Estimated cost, $50,000. D. L. Sommerville, Buffalo, is Division Engr.

BROOKLYN, N. Y.—Several new buildings are to be erected at Ft. Hamilton at a cost of $350,000. Ten sets of quarters for bachelor officers in one building and two double barracks, barracks for a torpedo company, administration building, hospital, guard-house, bakery and machine shop. The Army & Navy Branch of the Y. M. C. A. will also erect a $50,000 building.

FORT TOTTEN, N. Y.—Bids are asked by the Constructing Quartermaster until 2 p. m., Sept. 24, for the construction, plumbing, heating, wiring and electric fixtures for one stable and barracks. Capt. Geo. H. McManus, Constr. Q. M. (Advertised, Engineering News.)

GENEVA, N. Y.—L. C. Wille, of Lockport, N. Y., was the lowest bidder for the improvements to the State Armory, at Geneva, at $29,875. He probably will receive the contract. G. L. Heins is State Arch.

NEW YORK, N. Y.—The contract for the erection of a 3-story building at Broadway and 61st St., to be used as a garage by the Packard Motor Car Co., has been awarded to JULIUS KAHN.

The Edison Co. will build a 3-story reinforced concrete building, 64 × 100 ft., at Oliver Place and Decatur Ave. Hugo Kafka & Son, 34 West 24th St., are Archs.

A new theater is to be erected on 63d St. by Benjamin Butler Davenport. It is to be 60 × 100 ft. and have a seating capacity for 1,000 people. He will also erect a 10-story studio and office building adjoining the theater. Estimated cost of both buildings, $250,000.

NEW YORK, N. Y.—The following bids were received by the President of the Board of Trustees for the erection and completion of vacuum sweeping systems: (a) for the New Bellevue Hospital, First Ave. and 26th St.; (b) for the New Harlem Hospital, Lenox Ave. and 137th St.; (c) for the New Fordham Hospital, Crotona Ave. and Southern Boulevard; (d) for Gouverneur Hospital, Gouverneur Slip; (e) for Bellevue Hospital, First Ave. and 26th St.: Jno. R. Sheehan & Co., 1123 Broadway, (b) $12,500, (c) $11,250; Baldwin Engineering Co., 107 West 17th St., (a) $8,500, (b) $12,500, (c) $10,000, (d) $10,500, (e) $10,000; Sanitary Devices Mfg. Co., 11 East 24th St., (a) $6,570, (b) $7,670, (c) $9,210, (d) $7,392, (e) $8,660. John W. Brannan, Pres. Board of Trustees.

The following bids were received by John W. Brannan, Pres. Board of Trustees, for excavating, sodding and general work in laying out grounds at the new Harlem Hospital, at Lenox Ave. and 137th st.: C. Nally, 2382 Broadway, $34,342; Thos. Cummins Constr. Co., 69th St. and Avenue A, $29,-670; Leslie McHarg Co., 299 Broadway, $25,-816; Kelly & Kelley, 45 East 42d St., $20,826.

NEW YORK, N. Y.—Plans for the following building have been filed with the Building Department: 13th St., 530-532 East, for a 6-story brick tenement and store; S. Wanderman & Son, 230 Grand St., owners; S. Sass, Arch. Estimated cost, $55,000.

24th St., 225 ft. west of [illegible] Av., for a 6-story brick tenement and s[illegible], 50 × 85.9 ft. P. Sauris, of 244 Mott S[illegible] owner; C. M. Straub, Arch. Estimated c[illegible] $50,000.

41st St., 160 ft. east of [illegible] Ave., for a 1-story brick garage; New Y[illegible] Edison Company, of 55 Duane St., own[illegible] C. F. Hoppe, Arch. Estimated cost, $70,[illegible]

77th St. and Columbus A[illegible] for a 5-story brick building; City, owne[illegible] Charles Volz, Arch. Estimated cost, $325[illegible]

Broadway, for a 6-story br[illegible] garage, 173.11 × 109.11; R. Goelet, of 9 [illegible] est 17th St., owner; F. M. Andrews, Arch. [illegible] timated cost, $350,000.

Riverside Drive and 86th S[illegible] for a 12-story brick flat, 102.2x90; R. H. M[illegible] onald & Co., of 29 West 34th St., owne[illegible] C. E. Birge, Arch. Estimated cost, $350[illegible]

Cherry St., 106 to 108½, fo[illegible] 6-story brick tenement, 50 × 87; M. A. Rof[illegible] of 8 Roosevelt St., owner; Bernstein [illegible] Bernstein, Archs. Estimated cost, $50[illegible]

Washington Ave., west side, [illegible] ft. north of 178th St., for two 5-story b[illegible] tenements, 53.9 × 112; Isidore Robinson, 1938 Washington Ave., owner; Harry F[illegible] well, Arch. Estimated cost, $100,000.

Union Ave., east side, 43 ft. [illegible] h of Home St., for two 5-story brick bu[illegible] ngs, 50x82; Weiner & Palavitz, of 1473 W[illegible] ngton Ave., owners; Jacob H. Amsler, Ar[illegible] Estimated cost, $80,000.

136th St., north side, 85 ft. [illegible] est of 5th Ave., for four 6-story brick [illegible] ments and stores, 37.6 × 86.11; A. Perlma[illegible] of 91 Mangin St., owner; C. M. Straub, Arch. Cost, $140,000.

124th St., 138 and 140 West, f[illegible] an 8-story brick loft building, 50x100.11 H. C. F. Koch & Co., of 132 West 125th St., owners; William H. Hume & Son, Archs. Estimated cost, $118,000.

West End Ave. and 67th St., for two 6-story brick tenements, 40x90; Oseroff & Wilensky, of 1470 Webster Ave., owners; B. W. Levitan, Arch. Estimated cost, $105,000.

142d St., north side, 100 ft. west of Broadway, for two 6-story brick tenements, 37.6x 86.11; J. Kotlonsky, of 60 West 117th St.; owner; B. W. Levitan, Arch. Estimated cost, $80,000.

143d St., south side, 100 ft. east of Broadway, for two 6-story brick tenements, 37.6 × 86.11; J. Kotlonsky, owner; B. W. Levitan, Arch. Estimated cost, $80,000.

St. Nicholas Ave. and 145th St., for a 6-story brick tenement, 101.5 × 89.2; K. L. W. Realty & Construction Co., of 18 West 4th St., owner; Thain & Thain, Archs. Estimated cost, $175,000.

West End Ave. and 66th St., for three 6-story brick tenements and stores, 40.5 × 100; S. D. Davis, of 24 East 23d St., owner; Bernstein & Bernstein, Archs. Estimated cost, $110,000.

East Houston St., Goerck St., for two 6-story brick tenements and stores, 50.3 × 61.6; L. Sorkin, of 301 East 107th St., owner; Bernstein & Bernstein, Archs. Estimated cost, $75,000.

Home St., south side, 91.8 ft. west of Prospect Ave., for three 5-story brick tenements; Steinman Realty Co., of 200 East 116th St., owner; George F. Pelham, Arch. Estimated cost, $150,000.

ALBION, N. Y.—Bids are asked until Sept. 5 by J. G. White & Co., at their construction office, at Albion, N. Y., for erection of five substation buildings to be located between Lockport and Rochester. (Advertised, Engineering News.)

LAURELTON, L. I.—A new club house is to be erected here at a cost of $50,000. It is to be of early English design. The plans were drawn by Kirby, Petit & Green, Archs., 35 West 31st St.

EAST ORANGE, N. J.—An apartment house is to be erected on Main St., at an estimated cost of $100,000. It is to be a 5-story brick and stone building, 70 × 90 ft.

JERSEY CITY, N. J.—Edward Riedler & Co. are to erect an apartment house at Bright and Varick Sts. It is to be a 5-story brick and stone building, and is to cost approximately $65,000. Edward M. Patterson is Arch.

CAMDEN, N. J.—Dr. W. H. Long is to build an $87,000 theatre here. It is to be a thoroughly fireproof building.

PITTSBURG, PA.—The Penn. R. R. Co. is to build a terminal at Fifth Ave. and Grant St. Estimated cost, $10,000,000.

The contract for erection of a brick and steel building for the Pittsburg Gage & Supply Co., at 30th and Liberty Sts., has been awarded to THE GEORGE HOGG CO., of Braddock, Pa. Estimated cost, $350,000.

JOHNSTOWN, PA.—The contract for erection of a new 4-story building for P. S. Fisher on Clinton and Main Sts. has been awarded to CRAMP & CO. The building is to cost $70,000.

PHILADELPHIA, PA.—A new building will be erected at the University of Pennsylvania for the Veterinary Department. It will be a 3-story brick and stone building, 210 × 260 ft. Estimated cost, $300,000.

The contract for erecting an isolation ward at Front and Lehigh Aves. for the Episcopal Hospital has been awarded to THOMAS LITTLE & SON, 1222 Clover St. It is to be a 2-story brick and steel building, 80 × 130 ft. Estimated cost, $50,000.

The John D. Allen Co., Betz Bldg., this city, is preparing plans for the proposed Majestic Theater to be erected on North Broad St. The building will be of fireproof construction throughout. There will be two auditoriums, as another smaller theater will be erected above the main auditorium. The total seating capacity will be 4,000 persons. It will cost $1,000,000. The upper or "aerial" theater will be a duplicate, practically, of the lower one, but will contain no gallery.

SCRANTON, PA.—PETER STIPP, 327 North Washington Ave., has been awarded the contract for the erection of an addition to the bank and office building of The Dime Deposit & Discount Bank. It is to be a 4-story brick, stone and steel addition and will cost about $50,000.

PHILADELPHIA, PA.—THE WATSON CONSTRUCTION CO., Chicago, Ill., has been awarded the contract for erecting an office building at Twelfth and Spruce Sts., for the Grand Order of Odd Fellows. It is to be a 5-story brick, stone and steel building. Estimated cost, $80,000.

E. A. Wilson, Arch., Land Title Bldg., is preparing plans for an apartment house at 52d St. and Columbia Ave., for Wynne, Prince & Co. It is to be a 5-story brick, stone and steel building and is to cost about $125,000.

HAGERSTOWN, MD.—H. E. Yessler, Arch., of York, Pa., is preparing plans for a new High School building, to be erected here at a cost of $...,000. It is to be a 2-story brick and stone building, 85 × 200 ft.

BALTIMORE, MD.—The Hebrew Hospital and Asylum, Monument St. and Hopkins Ave., East, will erect hospital building adjoining present building on Monument St., near Broadway; cost to be about $75,000.

Frank Novak, 800 North Duncan St., will erect about 113 2-story brick dwellings at Bayard and Sargent St., to cost about $120,000.

Isaac Wennberg, 4 and 6 South Eutaw St., has awarded contract to MORROW BROS., 212 Clay St., for erection of warehouse at 37 Hopkins Pl. Structure will be five stories high, 29 × 45 ft.; brick with Indiana limestone trimmings. Louis Levi, American Bldg., Baltimore and South Sts., is Arch.

BALTIMORE, MD.—H. J. Finley, Arch., 11 East Lexington St., Baltimore, Md., is preparing plans for an apartment house here for The Windsor Hills Park Co. It is to be a 4-story brick and stone building of fireproof construction.

WASHINGTON, D. C.—The Board of Charities has submitted a plan to the Commissioners of the District of Columbia, prepared by its secretary, George L. Wilson, and Dr. George M. Kober, for the erection of proposed hospital for indigent tuberculosis cases. An appropriation of $100,000 is available for the construction of this building.

Horace Trumbauer, Arch., Land Title Bldg., Philadelphia, will soon be ready for bids on a $100,000 residence for Representative Geo. F. Huff, of Pennsylvania, at New Hampshire Ave. and Q St., Washington. The building will be of brick and stone, four stories high and 56 × 67 ft.

LYNCHBURG, VA.—The Lynchburg Traction & Light Co. is reported as having completed arrangements for rights-of-way ensuring the erection of proposed car barns to cost $75,000. D. Apperson is Gen. Mgr.

WASHINGTON, D. C.—Bids are asked until 2 p. m., Sept. 8, for furnishing and delivering terra cotta fireproofing for the second, third and attic floors of the new building for the National Museum in this city. Bernard R. Green, Supt. of Constr. (Advertised, Engineering News.)

INDEPENDENCE, VA.—The County Commissioners of Grayson County, Va., have awarded the contract for the new court-house to P. Q. SHRAKE, of Marion, Va. Plans by Frank P. Milburn & Co., Archs., Washington, D. C.

ELKINS, W. VA.—The County Court has awarded the contract to J. P. CONN for the erection of the court-house, to proceed with the construction work and complete the building for $33,500, making the total cost $100,000.

HUNTINGTON, W. VA.—Chesapeake & Ohio R. R. Co., C. E. Powell, Supervisor Bridges and Buildings, Hinton, W. Va., is reported as making arrangements to begin at once the erection of the proposed passenger station to cost $200,000.

WHEELING, W. VA.—Baltimore & Ohio R. R. Co., main offices, Baltimore, Md., has awarded contract to ROYDHOUSE, AREY & CO., of Philadelphia, Pa., for the construction of the proposed Wheeling station. Structure will cost about $400,000.

The contract for the erection of the Scottish Rite Cathedral has been awarded to ELLIOT & WINCHEL. It is to be a 3-story brick and steel building, to cost $75,000. C. M. Bartberger, Westinghouse Bldg., Pittsburg, Pa., is Arch.

SALISBURY, N. C.—Bids are asked until Sept. 4 by A. L. Smoot, Clk., for the erection of a new jail.

The People's Bank & Trust Co. has commissioned Frank P. Milburn & Co., Archs., Home Life Building, Washington, D. C., to prepare plans and specifications for their new bank. Building contract will be let as soon as the plans are ready.

GREENVILLE, S. C.—The Tourist Hotel & Recreation Park Co. is preparing to begin the erection of its proposed hotel building, which will cost about $25,000, including cost of construction of hotel and the building of an artificial lake to cover about seven acres, together with other improvements to its park of 40 acres in which the hotel will be located.

NEWBERRY, S. C.—Frank P. Milburn & Co., Archs., Home Life Building, Washington, D. C., have been selected to prepare the plans and specifications for the new Newberry County court-house by the Building Committee. Bids will be called for when the plans are ready.

MACON, GA.—Two dormitories costing $40,000 each will be erected by Mercer University. Lockwood Bros., Columbus Investment Bldg., Columbus, Ga., are Archs.

WEST PALM BEACH, FLA. — Dade County will vote on September 18 for an additional bond issue to erect school building to cost about $50,000. R. E. Hall, Secy. and Supt. Dept. of Pub. Inst., Miami, Fla.

MOBILE, ALA.—H. M. Price has awarded contract to JETT BROS. CONSTRUCTION CO. for erection of 4-story semi-fireproof building to cost $50,000.

BIRMINGHAM, ALA.—The Southern R. R. Co. will erect a new freight depot here at a cost of $60,000. It is to be built of brick and be located on Powell Ave., between 20th and 22d Sts.

MONTGOMERY, ALA.—Schloss & Kahn have had plans and specifications prepared for the erection of 4-story and basement building, 200 × 150 ft., to cost about $100,000. Structure will be either concrete, mill construction or steel, of stone and fancy pressed brick.

TUSCALOOSA, ALA.—James Knox Taylor, Supervis. Arch., Treasury Dept., is preparing plans for a $150,000 government building for this city.

MERIDIAN, MISS.—Frank P. Milburn & Co., Archs., Home Life Building, Washington, D. C., will prepare the plans and specifications for the new office building, 45 × 170 ft., at the A. & V. and N. O. & N. E. R. R. shops. J. C. Haugh, Resident Engr.

The A. G. S., A. & V. and N. O. & N. E. R. R. Companies will construct extensive terminals here; outbound freight building will be 582 ft. long, inbound freight building will be 600 ft. long, with sheds, platforms, steel doors, etc. The plans and specifications are being made by Architects Frank P. Milburn & Co., Washington, D. C. Contracts will be awarded about Oct. 1. J. C. Haugh, Resident Engr.

YAZOO CITY, MISS.—Bids are asked by E. R. Holmes, Mayor, until Sept. 10 for the erection of a city hall and the equipment of same.

NEW ORLEANS, LA.—GEORGE J. GLOVER has been awarded contract for the erection of proposed bank and office building for the Canal Bank & Trust Co.; structure to be nine stories; cost, about $300,000. Diboll & Owen, Ltd., Archs.

Bids are asked by the Trustees of the First Baptist Church, W. W. Heard, Chn., until Sept. 24, for the erection of a new church.

JACKSON, TENN.—Bids are asked until Sept. 5 for the erection of a Y. M. C. A. building. L. L. Curtis, Chn. of Bldg. Com.

ESCANABA, MICH.—The contract for the erection of the new high school has been awarded at $70,800.

PORT HURON, MICH.—The City Council has approved plans for constructing a $75,000 high school.

CHICAGO, ILL.—Bids are asked by James Knox Taylor, Supervis. Arch., until 3 p. m., Sept. 20, for miscellaneous repairs on U. S. post-office and court-house, Chicago, Ill.

RICE LAKE, WIS.—A new depot is to be erected here at a cost of $50,000 by the Chicago, St. Paul, Minneapolis & Omaha R. R. Co., G. Larson, Supt. of Brides and Bldgs. The depot is to cost $50,000.

MINNEAPOLIS, MINN.—Dr. C. A. Burton, Chicago, Ill., contemplates the erection of a 3-story, pressed brick and cut stone, fireproof hospital here on Columbus Ave., at a cost of $50,000.

The contract for the general construction of the pressed brick and cut stone fireproof warehouse for the Rock Island R. R. Co., to be erected here on 11th Ave. S. and 4th St., has been awarded to PIKE & COOK, of this city. It will be a 2-story building, of steel construction. Estimated cost, $50,000.

BUTTE, MONT.—The D. J. Hennessy Co. will build a $100,000 building on Granite St. W. A. O'Brien is Arch.

ST. LOUIS, MO.—THE CUDMORE CONSTRUCTION CO., 802 Chestnut St., has been awarded the contract at $84,990 for the erection of police building.

KANSAS CITY, MO.—Swedish Lutheran Hospital Association, Rev. Albert W. Lindquist, Pres., 1334 East Eighth St., is planning the construction of hospital to cost $100,000.

LITTLE ROCK, ARK.—Bids are asked until Sept. 5 by R. L. Weeks, Const. Q. M., for the erection of an addition to the guardhouse.

GALVESTON, TEX.—H. A. Pearlstein will erect a 4 or 5-story building to cost $90,000.

FORT WORTH, TEX.—Bacon Saunders has awarded contract to BUCHANAN & GILDER for the erection of his proposed office and store building; structure to be seven stories high, triangular in shape; stone and brick; cost, $100,000.

TEMPLE, TEX.—Contract will be let at once for proposed Santa Fe Railway Employees' Hospital, to cost $35,000; M. T. Pratt, Engr., Gulf, Colorado & Santa Fe R. R.

SAN ANTONIO, TEX.—D. E. Hirshfield and associates will erect a sanitarium at a cost of $200,000.

GUTHRIE, OKLA.—The Board of County Commissioners has ordered the county attorney to draw up the necessary papers looking to the advertising for bids for plans and contract for the construction of a county court-house to cost $100,000.

SOUTH McALESTER, IND. T.—The city is preparing to plan the expenditure of its $175,000 bond issue, recently approved, for the erection of schools. J. M. Greenaway, City Clk.

SILVERTON, COLO.—A new court-house is to be erected here, at a cost of $60,000. It is to be a 2-story brick and stone building, 84 × 106 ft. James Murdock, 610 Mack B., is the Arch.

DENVER, COLO.—A 4-story bachelor apartment is to be erected here at a cost of $70,000. It will be built of brick and stone. F. E. Edbrooke, 510 Opera House Blk., is Arch.

ALBUQUERQUE, N. MEX.—A $100,000 post-office is to be erected here.

SEATTLE, WASH.—Saunders & Lawton, Archs., have taken out a permit for the erection of the steel columns and beams of the building to be built at 1300-1334 First Ave., for the Arcade Building & Realty Co. The work will cost $85,000.

The Metropolitan Investment Co. is to erect a 7-story reinforced concrete building of fireproof construction. The contract has been awarded to THE GENERAL ENGINEERING & CONSTRUCTION CO., 215-16 Denny Bldg. Comerville & Cate are Archs. Estimated cost, $230,000.

SAN FRANCISCO, CAL.—Henry Schulze is the Arch. for the building of the Bank of San Jose, which will cost $100,000. It will be five stories high.

J. Parker W. Litinz, Sr., is to re-erect the Starr King Bldg. The building is to be eight stories high and is to cost about $400,000.

BERKELEY, CAL.—Dickey & Reed are Archs. for the new Morse Bldg. to be erected at Shattuck Ave and Bancroft Way. It is to be a 4-story brick building. Estimated cost, $60,000.

LOS ANGELES, CAL.—The contract for the erection of the Pease Bldg. has been let to CARL LEONHARDT. It is to be an 8-story reinforced concrete building on Hill St., between Sixth and Seventh Aves. Estimated cost, $100,000. Hudson & Munsell are Archs.

Austin & Brown, 691-9 Pacific Electric Bldg., are Archs. for a 10-story office building to be erected by Wright & Callender. It is to be of stone, steel and brick, and of fireproof construction. Estimated cost, $300,000.

SAN DIEGO, CAL.—The Board of Supervisors contemplates building a new courthouse, which is to cost $500,000.

Clements, Stannard & Blachman, Archs., 1633 F St., are preparing plans for the Realty & Mercantile Co., of Los Angeles, for the erection of the Steele Bldg., on Sixth and H Sts. It is to be a 6-story building, 100 × 100 ft. Estimated cost, $100,000.

MONTREAL, QUE.—H. C. Stone is Arch. for the addition to be built to the Coristine Bldg. Estimated cost, $80,000.

MONTREAL, QUE.—Plans are being prepared by John Woodman, C. E., for the erection of a Union Station, which are to be submitted to the railroad companies concerned and to the Dominion Railway Commission.

TORONTO, ONT.—J. P. Hynes, Arch., is preparing plans for a fireproof hotel on Yonge St., near Wellington, to cost about $60,000.

OTTAWA, ONT.—E. C. HORN, 1440 Broadway, New York, N. Y., has been awarded the contract for the erection of the new vaudeville theater. Estimated cost, $70,000.

WINNIPEG, MAN.—The contract for the erection of the office building to be erected by the Northwestern Commercial Travelers' Assn. has been awarded to D. D. WOOD, of this city. It is to be a 6-story building, of fireproof construction. Estimated cost, $120,000.

WATER SUPPLY—IRRIGATION.

The names of parties awarded contracts are printed in capital letters.

ARLINGTON, MASS.—The following bids were received Aug. 20 for building pumping station in Arlington: Woodbury & Leighton Co., 166 Devonshire St., Boston, $31,859; Norcross Bros. Co., Tremont Bldg., Boston, $30,333; H. A. Bellamy & Co., Old South Bldg., Boston, $31,168; Connery & Wentworth, 50 Pemberton Sq., Boston, $29,039; C. A. Dodge & Co., 8 Beacon St., Boston, $28,328.

NEW YORK, N. Y.—The following bids were received Aug. 24 by William B. Ellison, Comr. Water Supply, Gas and Electricity, for constructing engine houses for high pressure fire service at (a) Gansevoort and West Sts., Boro. of Manhattan, and (b) Oliver and South Sts., Manhattan: John R. Sheehan & Co., 1123 Broadway, (a) $83,000; J. C. Vreeland Building Co., 1 Madison Ave., (a) $76,000, (b) $77,000; John L. Cotter, 127 East 23d St., (a) $71,000, (b) $74,000; Charles H. Peckworth, 415 Hudson St., (a) $83,248, (b) $83,875; John J. Buckley, 310 West 65th St., (a) $76,504; Herman Probst, 10 West 29th St., (a) $89,790, (b) $90,832; Thomas Cockerill & Son, 147 Columbus Ave., (a) $69,527, (b) $71,334; Kelly & Kelley, 45 East 42d St., $85,675.

Bids are asked by William B. Ellison, Comr. Water Supply, Gas and Electricity, until 2 p. m., Sept. 12, for furnishing material and constructing an experimental filter station at the south end of the Jerome Park Reservoir, Boro. of the Bronx.

Announcement has been made by the Municipal Water Commission that on Oct. 1 it will advertise for bids for the first section of the new 90-mile aqueduct to the Catskills. This section will extend from Croton Falls to a point north of Peekskill, and the distance will be about 35 miles. The commission on Nov. 1 will advertise for bids for the second section, which extends from a point near Peekskill, across the Hudson River to East Hamburg, N. Y., and will embrace the tunneling under the Hudson River. The Commissioners think that the original estimates of $161,000,000 for the cost of the water system will hold good. They expect the work to begin by the first of the year.

BUFFALO, N. Y.—We are officially advised that on Aug. 22 the following bids were received by the Department of Public Works, Francis G. Ward, Comr., for constructing intake pier, tunnel and shafts, as noted in Engineering News, Aug. 2, were: Buffalo Dredging Co., $1,272,764; C. C. Barr, $1,392,528; Great Lakes Dredge & Dock Co., $1,414,053; F. V. E. Bardol, $1,619,706; Miller & Franklin, $1,975,786. The engineer's estimate was $1,300,000. Henry L. Lyon is Deputy Water Comr. The bids will be submitted to the Common Council on Sept. 4.

CORNING, N. Y.—Bids are asked until 8 p. m., Sept. 3, by the Board of Water Commissioners, W. J. Heermans, Secy., for installing two 150-HP. gas engines with gas producer plant, and two triplex power pumps of 2,000,000 gallons daily capacity each. J. F. Witmer is Engr., Buffalo, N. Y. (Advertised, Engineering News.)

PHILADELPHIA, PA.—A list of bids received by Thomas L. Hicks, Dir. Dept. Pub. Wks., for completing Torresdale filter plant, will be given in this column next week.

HAMPTON, VA.—Peninsular Pure Water Extension Co. has been incorporated with an authorized capital stock of $100,000. Samuel B. Whitestone, of Philadelphia, Pa., is Pres.; Sidney J. Dudley, of Hampton, Secy., and S. C. Reeves, of Phoebus, Va., Treas.

PARSONS, W. VA.—The Elk Lick Water Co. has been chartered to construct and maintain water-works systems in the towns of Parsons and Hambleton, in Tucker County. The authorized capital is $40,000. The incorporators are: H. E. Ahrens, R. B. Kinsey, J. S. Ahrens, W. H. Miller, Jr., and F. S. Kinsey, of Reading, Pa.

CARENCRO, LA.—The contract for constructing water-works here has been awarded P. H. PORTER, Louisville, Ky., consisting of an elevated tank and tower, pumping plant, 2,950 ft. 6-in., 1,460 ft. 8-in. water main, valves, hydrants and specials. Cost, $11,170. Ira W. Sylvester, of Alexandria, is Engr.

NASHVILLE, TENN.—We have been officially advised that on Aug. 18 the ALLIS-CHALMERS CO., of Milwaukee, Wis., was awarded contract by the Board of Public Works for installing 20,000,000-gallon pumping machinery for the water-works in this city, at $143,700. John T. Ahearn is Supt.

GLENVIEW, KY.—It is reported that a pipe line about five miles long will be constructed at Glenview, to cost about $16,000. Thomas F. Smith, of Louisville, is Pres. Glenview Water Pipe Line Co.

CALIFORNIA, OHIO.—Bids are asked until Sept. 28 by the Board of Trustees, Commissioners Water-Works, A. Herrmann, Pres., for furnishing and placing operating machinery and apparatus for the filtration plant and reservoirs near California.

CINCINNATI, OHIO.—Charles L. Allen, of Marion, Ohio, on Aug. 18 submitted the lowest bid, about $90,000, for installing the high-pressure water system for the southeastern section of the city.

MIDDLETOWN, OHIO.—Bids are asked until Sept. 5, by the Board of Public Service, for laying about 8,000 lin. ft. of water mains in this town. N. B. Oglesby is City Clk.

HUNTINGTON, IND.—Bids are asked until Sept. 18 by the City, Joseph Carroll, Clk., for installing a 2,000,000-gallon pump at the water-works at Huntington. Henry H. Wagoner is City Clk.

FREMONT, MICH.—We are advised by Harry Gerber, Chn. Water Com., that the SNYDER CONSTRUCTION CO., Muskegon, Mich., has contract to construct water system in Fremont, at $7,750.

KINGSLEY, MICH.—We are officially informed that BARNES & JOYNT, of Traverse City, Mich., have secured contract for constructing complete water-works system, at $6,163.

CHICAGO, ILL.—We are officially advised that contract for supplying water gate valves, for the Chicago water-works, was awarded on Aug. 10 to the LUDLOW VALVE MFG. CO., 97 South Clinton St., at $21,797. Other bidders were: Rensselaer Mfg. Co., Monadnock Bldg., $22,006; Roe Stephan, $22,273; Western Valve Co., 43 West Rand St., $25,466. W. A. Shaw is Engr.-in-Charge.

NORMAL, ILL.—See under Sewers.

CHARITON, IOWA.—The contract for construction of the Chariton water-works was let by the City Council on Aug. 15 to the American Light & Water Co., 103 New England Bldg., Kansas City, Mo., at $36,666.66.

PIERRE, S. DAK.—Bids are asked until 2 p. m., Sept. 17, by the Commissioner of Indian Affairs, Washington, D. C., for sinking an artesian well, about 1,300 ft. deep. J. G. Levengood, Pierre, is Supt. C. F. Larrabee is Acting Comr., Washington, D. C.

SHOSHONE AGENCY, WYO.—The CENTRAL WYOMING IRRIGATION CO. has been awarded contract by the State to construct irrigation works in the Shoshone Indian reservation. The officers of the company are: Joy Morton, Exchange Bldg., Chicago, is Pres.; Mark Morton, Vice-Pres.; E. H. Stearns, Secy.; Daniel Peterson, Treas., all of Chicago.

HUNTLEY, MONT.—We have been officially advised that the following bids were received Aug. 7, at U. S. Reclamation Office, Billings, Mont., H. N. Savage, Superv. Engr., for Schedule 2, materials for the Huntly pumping plant: Camden Iron Works, Camden, N. J., $12,675; Platt Iron Works, Dayton, Ohio, $13,725; United Iron Works, Second and Jefferson Sts., Oakland, Cal., $16,750; Hurley & Co., 392 Selby Ave., St. Paul, Minn., $17,267. No bids were received for Schedule 1. G. E. Goodwin is Engr.; R. S. Stocton is Projecting Engr.

BUTTE, MONT.—Improvements costing about $250,000 are contemplated at the Butte reduction works within the next two years. The present culvert of timber which runs through the works and carries the water of Silver Bow Creek through the tailings pile, will be replaced by a culvert of concrete or brick, it is not yet decided which. This culvert will be semi-cylindrical, with a width of 25 ft., and will make it possible for the tailings to be piled over the creek to any depth desired. At present the tailings are piled on either side of the wooden culvert, and there is a large amount of space going to waste. The new culvert will be about 3,000 ft. long.

CLINTON, MO.—Bids are asked until Sept. 18 by G. V. Berry, City Clk., for installing a complete water-works system at Clinton. W. H. Shackleford is Mayor. Noted in issue of Aug. 16.

COLUMBUS, TEX.—The City has leased its water-works to John Tanner, who will at once arrange for extending the mains, and probably make other improvements.

BAY CITY, TEX.—It is reported that the Trespalacios Rice and Irrigation Co. will put in an irrigation system. The plant will consist of two pumps and engines and boilers to match, capable of furnishing water for 12,000 acres of rice.

SOUTH McALESTER, IND. T.—The city is preparing to ask for proposals on its proposed water-works and sewer extensions, for which $25,000 is to be available. George Wilcox is City Engr.

PUEBLO, COLO.—Contract for digging trench for wooden stave pipe line to connect the northern part of the city with the underground reservoirs under construction has been let to HOLME & ALLEN, at $100,000.

TRUXTON, ARIZ.—Bids are asked until 2 p. m., Sept. 14, by the Commissioner of Indian Affairs, Washington, D. C., for constructing a stand pipe at the Truxton Canon School, Oliver H. Gates, Supt., 30 ft. high and 15 ft. in diameter. C. F. Larrabee is Acting Comr., Washington.

ST. STEPHENS, N. B.—EVERETT M. NESBITT and EMERSON B. HANSON have secured contract to construct the St. Stephens water-works system, at $9,785.

WINNIPEG, MAN.—Bids are asked until 2.30 p. m., Sept. 10, by J. C. Gibson, Chn. Fire, Water and Light Com., for supplying 2,000 ½-in. water meters for the city waterworks. H. N. Ruttan is City Engr. (Advertised, Engineering News.)

SASKATOON, SASK.—We are officially advised that this city is installing complete system of water-works, sewer and electric lights, under the direction of Willis Chipman, C. E., 103 Bay St., Toronto, Ont. The following contracts have been awarded: Excavating, MASTERTON & FRY, $73,490; power-house, WILLOUGHBY & COVERT, $21,000; stand-pipe, ONTARIO WIND ENGINE & PUMP CO., $8,100; hydrants, R. D. WOOD & CO., $4,150; sewer pipe, MACOMB SEWER PIPE CO., $6,300; pumping machinery, CANADA FOUNDRY CO., $10,450; electric machinery and wiring, ALLIS-CHALMERS, BULLOCK CO., $16,651; engines, ROBB ENGINEERING CO., $11,212; boilers, CANADA FOUNDRY CO., $6,500; iron pipes and specials, CANADA FOUNDRY CO., $30,600.

MEDICINE HAT, ALTA.—THE ONTARIO WIND ENGINE & PUMP CO., of Winnipeg, has been awarded contract for installing a steel water tower or stand-pipe, with a capacity of 500,000 gallons, for the town of Medicine Hat, the cost of which will be $12,900.

SEWERAGE.

The names of parties awarded contracts are printed in capital letters.

MALDEN, MASS.—The Metropolitan Water and Sewerage Board has awarded the contract for laying a trunk line sewer from the foot of Linden Ave., to the Saugus Branch R. R., to T. H. GILL & CO., 88 Broad St., Boston, at $33,600. Frederic P. Stearns is Ch. Engr., Metropolitan Water and Sewerage Board.

HARTFORD, CONN.—The following bids were received Aug. 20 by the Board of Contract and Supply for constructing Sections A and B of the Elizabeth Park sewer system: CHARLES H. SLOCOMB (awarded contract) A, $18,986, B $20,002; Falney & Kelly, A $21,019, B $21,913; F. B. & W. H. O'Neil, A $19,819, B $20,112; F. T. Levy & Co., Incorporated, A $22,378, B $26,183.

NEW YORK, N. Y.—Bids are asked until 11 a. m., Sept. 12, by Bird S. Coler, Pres. Boro. of Brooklyn, for constructing sewers in various streets of Brooklyn.

NEW YORK, N. Y.—Bids are asked until 3 p. m., Sept. 10, by John F. Ahearn, Pres. Boro. of Manhattan, for constructing sewers in various streets of Manhattan.

SENECA FALLS, N. Y.—The contract for constructing sewer system at Seneca Falls has been awarded to ALEXANDER C. MARTIN, the second lowest bidder, at $55,883, and not to the Wilkes-Barre Construction Co., Wilkes-Barre, Pa., the lowest bidder, as noted in issue of Aug. 23.

MATTEAWAN, N. Y.—We are officially advised that, on Aug. 23, M. J. LEAHY, 1446 Prospect Ave., New York, was awarded contract, at $48,686, for constructing sewage disposal plant at Matteawan, for which bids were received Aug. 18. Other bidders were: G. H. Eldridge, 40 Ellis Pl., Ossining, N. Y., $53,812; Ford & Waldo, 21 Park Row, New York, $52,519; B. I. D. Rossa is Village Clk.

KEARNEY (Arlington post-office), N. J.—Bids are asked by the Town Council until Sept. 12 for constructing a pipe sewer in Devon St. Wm. S. Logan is Town Surv., 121 Midland Ave., Arlington, N. J.

PLAINFIELD, N. J.—Plans, specifications and bidding sheet for constructing sewers in Plainfield, as advertised in issue of Aug. 23, are on file at office of Engineering News, New York. Bids are asked until Sept. 4.

MERCHANTVILLE, N. J.—We are officially informed that bids will soon be asked for constructing sewer system at Merchantville. A. W. MacCallum, 26 South Third St., Philadelphia, Pa., is Chn.

SCRANTON, PA.—Bids are asked until Sept. 4 by the Department Public Works, for constructing system of sewers, known as Section A, 18th District, 20th Ward. Charles Acker is Dir. Dept. Pub. Wks.

ATHENS, PA.—All bids received Aug. 15 for constructing sewers were rejected. The lowest bid was submitted by Walker, Connelly & Shea, Elmira, N. Y., at $23,933.

LEWES, DEL.—Bids are asked until Sept. 1 by the Board of Public Works, for extending a sewer in Jefferson Ave. Roman Tammany is Secy.

BALTIMORE, MD.—The Board of Awards has approved specifications by the sewerage commission for the construction of storm-water sewers in the following streets: Cathedral St. and Camel Alley, Federal and Spring St., Bond St., Broadway, Harford Ave., North Ave., Charles St., Rutter Alley and Lafayette Ave., Oak St., Hampden Ave., 24th St. and Guilford Ave., Chester St., Ann St., Hoffman and Ensor Sts, Kenwood Ave. Bids for construction will be invited at once, and it is expected that contracts will be awarded not later than Sept. 19. E. Clay Timanus is Pres.; Calvin H. Hendrick is Ch. Engr.

BALTIMORE, MD.—Bids are asked until 11 a. m., Sept. 19, by the Board of Awards, William D. Platt, Chn. pro tem, for constructing storm water drains. E. Clay Timanus is Pres. and Harry W. Rodgers is Secy. Bd. of Awards. (Advertised, Engineering News.)

WASHINGTON, D. C.—Bids are asked until noon, Sept. 11, by the Commissioners District of Columbia, Washington, for constructing sewers. (Advertised, Engineering News.)

Bids were opened at the office of the Commissioners of the District of Columbia, Washington, D. C., for the installation of three sewers A, B, and C, in the District. Bids were as follows, under the following items: Sewer A, Item 1, ordinary excavation, per cu. yd.; 2, sewer brick masonry, per cu. yd.; 3, 24-in. pipe, per ft.; 4, 21-in. pipe; 5, 18-in. pipe; 6, 12-in. pipe. Sewer B, 1, ordinary excavation; 2, sewer brick masonry; 3, 15-in. pipe; 4, 12-in. pipe. Sewer C, 1, ordinary excavation; 2, sewer brick masonry; 3, 24-in. pipe; 4, 18-in. pipe: E. G. Gummel, Eckington, D. C., A (1) $1, (2) $16, (3) $1.35, (4) $1.25, (5) $1.15, (6) 90 cts.; B (1) $1, (2) $16, (3) $1, (4) 85 cts.; C (1) $1, (2) $16, (3) $1.25, (4) $1.10. James A. Coyle, 2750 14th St., Washington, A (1) 80 cts., (2) $16, (3) $1.30, (4) $1.20, (5) $1.10, (6) 80 cts.; B (1) 75 cts., (2) $16, (3) 95 cts., (4) 70 cts.; C (1) $1.25, (2) $16, (3) $1.60, (4) $1.25. R. J. Beall Construction Co., 1217 F St., Washington, A (1) $1.30, (2) $16.50, (3) $1.60, (4) $1.50, (5) $1.35, (6) $1.15; B (1) $1.50, (2) $16.50, (3) $1.25, (4) $1.10; C (1) $1.15, (2) $15.50, (3) $1.45, (4) $1.35. Lyons Bros., Washington, A (1) 95 cts., (2) $16, (3) $1.38, (4) $1.35, (5) $1.27, (6) $1.10; B (1) $1.10, (2) $16, (3) $1.15, (4) $1.10; C (1) $1.25; (2) $16, (3) $1.38; (4) $1.27. Stuart & Bratton, Washington, A (1) $1, (2) $18, (3) $1.50, (4) $1.25, (5), $1, (6) 75 cts.; B (1) $1.25, (2) $18, (3) 80 cts., (4) 60 cts.; C. (1) $2, (2) $18, (3) $1.50, (4) $1.

LAKE CITY, S. C.—Bids are asked until noon, Sept. 20, by the Commissioners Public Works, M. D. Nesmith, Chn., for constructing 30 to 64-in. brick or concrete sewers and 16 to 27-in. terra cotta sewers, also 54 catch-basins. Charles C. Wilson is Consult. Engr., Columbia, S. C. (Advertised, Engineering News.)

EATONTON, GA.—We are officially advised that about five miles of 6 to 18-in. sewers will be constructed at Eatonton, at an estimated cost of $13,500. M. F. Adams is Mayor; H. C. Walker is City Clk.

ST. AUGUSTINE, FLA.—The committee appointed recently to consider plans, etc., for construction of sewer system has recommended to the City Council the adoption of the gravity system of sewers, with septic tanks, dividing the city into four or more districts. Probable cost of system complete, $100,000. It has also been recommended that Lewis & Kitchen be employed to prepare plans and specifications.

VICKSBURG, MISS.—Specifications and bidding sheet for constructing Washington St. sewer at Vicksburg, as noted in issue of Aug. 16, are on file at office of Engineering News, New York, N. Y. Bids are asked until Sept. 3.

STEUBENVILLE, OHIO.—Bids are asked until noon, Sept. 10, by the Board of Public Service, for constructing 12-in. sewers in alleys of this city. T. W. Vance is City Clk.

CONNEAUT, OHIO.—Bids are asked until noon, Sept. 1, for constructing 8 to 10-in. sewers in Conneaut, at an estimated cost of $11,000. T. F. Lininger is City Engr. H. T. Culp is City Clk.

DELPHI, IND.—Bids are asked by the commissioners of Carroll County until Sept. 3, for construction of an open and tile ditch in Deer Creek Township. Fred. Engle is County Audr.

INDIANAPOLIS, IND.—The Board of Public Works has ordered Blaine H. Miller, City Engr., to prepare plans and specifications for sewer in Brightwood addition.

LANSING, MICH.—It is proposed to construct a brick sewer in Washtenaw St., 20 x 30 ins. to 30 x 45 ins., to cost about $4,200. H. A. Collar is City Engr.

GRAND HAVEN, MICH.—The Riggs & Sherman Co., Toledo, O., has been engaged to prepare plans for the proposed sewerage system to cost between $60,000 and $70,000, for Grand Haven L. A. Graham is City Clk.

JACKSON, MICH.—Contracts have been let for constructing an intercepting sewer, into which will run all sewers formerly flowing into Grand River. This will convey the sewage to a purification plant. The entire expense will be $90,000.

NORMAL, ILL.—At a meeting of the Normal City Council, held Aug. 21, the contract was let to FRANK L. SULLIVAN, of Bloomington, Ill., for building a 36-in. brick sewer, extending from the end of the present sewer on Mulberry St. to Poplar St. The sewer will follow the course of the creek bed as far north as Locust St., where it turns west to Fell Ave., and thence north to Poplar St. The same contractor was awarded the contract of laying a 6-in. water main on South Fell Ave., between Florence and Virginia Aves.

MAUSTON, WIS.—Bids are asked until Sept. 10 by K. L. Sharp, City Clk., for constructing vitrified pipe sewers.

DAVENPORT, IOWA. — The Hydraulic Concrete Construction Co., of Davenport, has secured the contract for 6,710 lin. ft. of 15, 12 and 10-in. pipe sewers at $1.19½ per lin. ft., and 1,840 ft. 12-in. at 83 cts. per lin. ft. W. H. Claussen, Clk. Bd. of Pub. Wks.

CHARLES CITY, IOWA.—On Aug. 14, the city council awarded the contracts for constructing cement sewers A, B, and C, the outlet and the one across the Upham farm, to M. TSCHIRGI, of Dubuque, for constructing sewers D, E, F, G and H, the last named, on Clark St., and to be made of sewer pipe, to O'FARRELL CONSTRUCTION CO., of Dubuque. Both contracts are to be completed by the 15th of November.

NEW ULM. MINN.—Bids are asked until Sept. 10 for laying one block each of 9-in., 12-in. and 18-in. pipe sewers, including two manholes and eight catch-basins. O. Palmer is City Engr.

BREWSTER, MINN.—Bids are asked by Otto Knuth, Village Recdr., until Sept. 3 for constructing a drain about 7,755 ft. long. M. B. Haynes is Engr., Mankato, Minn.

JUNCTION CITY, KAN.—Bids are asked until Sept. 4 for construction of a sewerage system, to cost about $60,000. Burns & McDonnell, Dwight Bldg., Kansas City, Mo., are Engrs.; T. W. Dorn is City Clk.

HELENA, MONT.—Bids are asked until Sept. 3, at the office of F. J. Sterling, City Clk., for constructing a storm sewer requiring about 200,000 paving brick, 800,000 ordinary brick, removing 3,550 ft. old flume, etc. Estimated cost, $34,000.

ST. LOUIS, MO. — We are officially informed that on Aug. 24 A. J. O'Reilly, Pres. Bd. Pub. Improvement, awarded the GEORGE G. PRENDERGAST CONSTRUCTION CO., Columbia Ave. and Kingshighway, the contract to construct the Manchester Ave. Joint Sewer District and McCansland Ave. Sewer District No. 1, at $70,002, and $78,521 respectively.

NORMAN, OKLA.—It is reported that the City Council will have plans prepared at once for proposed sewer system at Norman, to cost about $25,000.

HOT SPRINGS, ARK.—The Improvement District Commissioners have awarded the contract to WILLIAM BORMAN, at $7,075, for constructing the South Hot Springs sewer system. R. B. Sigman is Comr.

CLAREMORE, IND. T.—The contract for constructing storm sewers, bids received Aug. 9, has been awarded to N. S. SHERMAN MACHINE CO., of Oklahoma City, Okla., at $17,500. A. Ross Moore is City Recdr.

PARIS, TEX.—The city is having estimates prepared for a sewer system and septic tank to cover one square mile of drainage. This contract probably will be awarded within 30 days. Edward H. McCuistion is Mayor.

DENVER, COLO.—We are officially advised that on Aug. 11, the COMMONWEALTH CONSTRUCTION CO., 408 Colorado Bldg., Denver, was awarded contract by the Board of Public Works, J. B. Hunter, Ch. Engr., for constructing North Denver Storm Sewer No. 1, at $220,596. The engineer's estimate of cost of work was $229,210.

PORTLAND, ORE.—We are officially advised that the contract for constructing the Brooklyn District sewer has been awarded to PAQUET, GUBISCH & JOPLIN, Portland, at $242,378. The engineer's estimate was $250,000. D. W. Taylor is City Engr.; Thomas C. Devlin is City Audr.

SAN FRANCISCO, CAL.—On Aug. 12, the Board of Contract and Supply awarded to RAUBER & VICINUS, the contract to construct the St. Paul St. sewer, at $23,403.

LEWISTON, IDAHO.—JAMES A. CLARK, of Spokane, Wash., is reported to have secured the contract for constructing sewers in Lewiston, at $105,062.

LEWISTON, IDAHO.—We are officially informed that JAMES A. CLARK, Spokane, Wash., has been awarded contract, at $105,062, for constructing sewer system at Lewiston, Idaho. Estimated cost was $125,000. A. N. Miller, Lewiston, is Des. Engr.; D. C. Wrighter is City Engr.; John E. Nickerson is City Clk.

STREETS AND ROADS.

The names of parties awarded contracts are printed in capital letters.

AUGUSTA, ME.—The FRANK B. LEE CO. has secured contract, at $29,550, for improvements to the Hallowell, Bangor, Winthrop and North Belfast Roads. W. B. Gretchell is City Engr.; Frederick W. Plaisted is Mayor.

SMITHS FERRY, MASS.—The contract for building 1¼ miles of new state road at Smiths Ferry, to connect with the road which was built last year, was awarded on Aug. 15 by the State Highway Commission to BRUNO & MILANO, of Boston, whose bid was $10,881. Other bids were submitted as follows: R. F. Hudson, Melrose, $11,763; Daniel O'Connell's Sons, Holyoke, $14,570; W. N. Flynt Granite Co., Monson, $11,159; Lane Construction Co., Meriden, Conn., $11,743.

WATERTOWN, MASS.—We are officially advised that on Aug. 6 BRODERICK & DONOVAN, Jamaica Plains, Mass., were awarded contract for grading road through U. S. Arsenal, Charles River Reservation, from Arsenal to North Beacon Sts., Watertown, at $17,680. Other bidders were Giovani Colantuoni & Frank Williams, Charlestown, Mass., $15,745; Coleman Bros., 15 Court Sq., Boston, $22,245; T. Stuart & Son Co., Newton, Mass., $22,705; T. H. Gill & Co., 88 Broad St., Boston, $23,413; Rowe & Perini, South Framingham, Mass., $23,581; George A. Dillingham & Co., Boston, informal. John R. Rablin is Engr., Metropolitan Park Comn.

WOONSOCKET, R. I.—Bids are asked until 4 p. m., Sept. 7, by Steven Magown, Chn. Com. on Sts. and Bridges, for paving parts of Blackstone and Daniels Sts. Frank H. Mills is City Engr. (Advertised, Engineering News.)

WOODBURY, CONN.—Bids will be received until Sept. 1 by the Board of Selectmen for constructing 3,240 lin. ft. road. Charles S. Curtis is Chn.

BRIDGEPORT, CONN.—Bids are asked until 8 p. m., Sept. 1, by the Committee on Streets and Sidewalks, W. H. R. DuBois, Chn., for laying about 7,426 sq. yds. paving brick on East Washington Ave., between Main and William Sts. Specifications and bidding sheet are on file at office of Engineering News, New York, N. Y. (Advertised, Engineering News.)

ALBANY, N. Y.—The following bids were received Aug. 27, by Henry A. Van Alstyne, State Engr., as follows, for constructing roads in several counties: (158) A. Schaupp, Albany, $6,590; Bu[illegible] Construction Co., Plattsburg, $7,282. ([illegible]) J. Webber & Sons, Inc., New York, $[illegible]00; Mott & Kemper, Utica, $7,900. (236) [illegible]ed, Fitzgibbons & Keeler, Alexandria Bay, N. Y., $39,016. (239) J. T. Finch, Glens Falls, $51,000; M. Kantrowitz, Albany, $4[illegible]; Simpson Bros., Phoenicia, $48,088; Hinman & Spraul, Binghamton, $46,950. (248) Schenectady Construction Co., Schenectady, $16,243; A. Schaupp, Albany, $18,390. (27[illegible]) J. T. Finch, Glens Falls, N. Y., $80,868; Ca[illegible] & Murray, Rochester, $79,800. (279) Barnett Contracting Co., Oswego, $18,390. ([illegible]) Barnett Contracting Co., $12,700. (282) J. T. Finch, Albany, $62,750; DeGraff & Hogaboom, Bloomington, $56,865; Orange County Road Construction Co., New York, $[illegible]. (283) Orange County Road Construction Co., $57,350. (287) T. H. Karr, Troy, $[illegible]7,500; M. Kantrowitz, Albany, $35,349; DeGraff & Hogaboom, $37,900; M. F. Doll[illegible], Albany, $39,000. (290) W. J. Dwyer, Syracuse, $12,200; Central City Paving Co., Syracuse, $12,631. (303) Schenectady Contracting Co., $20,350; A. Schaupp, Albany, $2[illegible]. (312) Putnam Construction Co., Brewster, $44,390; DeGraff & Hogaboom, Bloomington, $36,400; Orange County Road Construction Co., $37,500; Frank Arrigona, Durham, Conn., $37,750; Hinman & Spraul, Binghamton, $37,500. (328) W. J. Dwyer, Syracuse, $17,[illegible]. (336) Tompkins County Board of Supervisors, $37,397. (338) Tompkins County Board of Supervisors, $14,895. (339) W. S. Tyler, Chittenango, $27,487. (342) Hinman & Spraul, $8,500; J. W. Polcaro, Pittsfield, Mass., $7,500. (357) A. B. Bovier & Rowland, $15,899; Costello & Nagle, Elmira, $14,250. (369) John H. Gordon, Albany, $28,000. (370) Barnett Contracting Co., $6,170. (379) J. Webber & Sons, Inc., $6,868. (380) Mott & Kemper, Utica, $36,800. (381) Mott & Kemper, Utica, $26,800.

ALBANY, N. Y.—A complete list of bids received for constructing roads Nos. 384 to 593 will be given in this column next week.

NEW YORK, N. Y.—Bids are asked until 11 a. m., Sept. 12, by Bird S. Coler, Pres. Boro. of Brooklyn, for regulating, grading, paving and curbing certain streets in Brooklyn.

Bids are asked until 3 p. m., Sept. 6, by the Department of Parks, Moses Herrman, Pres., for supplying 3,000 cu. yds. broken stone and 3,000 cu. yds. screenings, for parks, Boro. of the Bronx.

NEW YORK, N. Y.—Bids are asked until 3 p. m., Sept. 10, by John F. Ahearn, Pres. Boro. of Manhattan, for repairing asphalt block pavement in the Borough of Manhattan, and for other incidental work.

NEW BRUNSWICK, N. J.—This city has awarded contract to the STANDARD BITULITHIC CO., 253 Broadway, New York, N. Y., for 3,500 sq. yds. of bitulithic pavement.

PATCHOGUE (L. I.), N. Y.—Bids are asked until 8 p. m., Sept. 5, by J. Fred Flugrath, Village Clk., for paving about 3,500 sq. yds., and for about 9,600 lin. ft. of curbing. (Advertised, Engineering News.)

INGRAM, PA.—Bids are asked until 5 p. m., Sept. 3, by the Town Council, for paving Jones Ave. and Berry and McKee Sts. James S. Haring is Boro. Engr., Ingram.

OIL CITY, PA.—We are officially advised that on Aug. 20 the INTERNATIONAL CONSTRUCTION CO., Allegheny, Pa., secured contract, at $13,500, for paving various streets, for which bids were received Aug. 13. E. S. Lawrence is City Engr.

POTTSVILLE, PA.—We are officially informed that on Aug. 21 MURDOCH & WATSON, Baxter Bldg., Philadelphia, were awarded contract, at $16,500 for paving several streets. G. A. Berner is City Clk.

WILKES-BARRE, PA.—We are officially advised that the WILKES-BARRE CONSTRUCTION CO., Wilkes-Barre, has secured contract for constructing 9,000 sq. yds. brick pavement and 6,000 ft. concrete, steel protected curb. The company is in the market for material and labor.

WASHINGTON, D. C.—Bids are asked until noon, Sept. 7, by the Commissioners of the District of Columbia, Washington, for grading and improving Connecticut Ave., west of Rock Creek. (Advertised, Engineering News.)

WINCHESTER, VA.—Contract will shortly be let for 5,000 sq. yds. of vitrified pavement. G. H. Kinzel is City Treas.

ELBERTON, GA.—Bids are asked until Sept. 4 for paving McIntosh St. with vitrified brick. B. I. Thornton is Mayor.

UNIONTOWN, ALA.—Bids are asked until noon, Sept. 10, by the City Clk., Uniontown, for grading, paving and curbing certain streets. W. J. Viaden is Mayor; S. E. Washburn, Montgomery, is Engr.-in-Charge. (Advertised, Engineering News.)

MOBILE, ALA.—We are officially informed that contracts will be awarded after Sept. 1 for placing 50,000 sq. yds. bitulithic pavement, estimated cost, $112,500, and 10,000 sq. yds. wooden block, estimated cost, $22,500; also three miles of storm sewers, to cost about $60,000. Wright Smith is Ch. Engr. Bd. Pub. Wks.

VICKSBURG, MISS.—Specifications and bidding sheet for street paving in Vicksburg, as noted in issue of Aug. 16, are on file at office of Engineering News, New York, N. Y. Bids are asked until Sept. 3.

LAKE CHARLES, LA.—Contract for paving on Ryan, Pujo and Broad Sts., which was recently awarded to Joseph Pringle & Son, 314-315 Skukett Bldg., Kansas City, Mo., has been transferred to the MISSOURI CONSTRUCTION CO.

MEMPHIS, TENN.—The MEMPHIS ASPHALT CO. has been awarded the contract for paving Poplar St. from Manassas St. to Garland Ave. Estimated cost, $59,600.

LOUISVILLE, KY.—Contracts have been awarded by the Board of Public Works for paving streets with vitrified blocks to JAMES D. BUHON, LEE R. FIGG and G. W. GOSNELL.

Bids are asked until Aug. 31, by the Board of Public Works, for paving Bayly Ave. and Olive St. with asphalt. Estimated cost, $14,900. J. P. Claybrook is City Engr.

YOUNGSTOWN, OHIO.—It is reported that KENNEDY BROS. have been awarded contract, at $56,334, for paving West Federal and Center Sts., and grading Pine St. F. M. Lillie is City Engr.

MARIETTA, OHIO.—Bids are asked until noon, Sept. 6, by the Board of Public Service, for improving various streets in this city. A. F. Cole is Engr.; A. W. Tompkins is Clk.

COLUMBUS, OHIO.—Contracts were let Aug. 15 as follows: Germania St., from Parsons to Hoyl Sts., with Nelsonville block, to BALDWIN BROS. & GRAHAM, at $18,412; Wager St., Livingston Ave. to Columbus St., with Nelsonville block, to BALDWIN BROS. & GRAHAM, at $12,605; Wilson Ave., Livingston Ave. to Mound St., with Athens block, to N. B. ABBOTT, at $29,494; McDowell St., State to Mound Sts., with Athens block, to D. E. SULLIVAN & SON, at $22,089; Spring St., Dennison Ave. to Hanover St., with Mount Airy granite, to WILLIAM H. LUCHTENBERG, at $11,941; Young St., Broad to Long Sts., with Athens block, to A. G. PUGH, at $4,528. Henry C. Maetzel is City Engr.

PORTSMOUTH, OHIO.—We are officially advised that contract for paving John St. was let Aug. 11 to MONROE BROS., Portsmouth, at $12,053; and at same time contract for paving Campbell Ave. was let to KELLEY BROS., Portsmouth, at $15,865.

COVINGTON, IND.—We have been officially advised that on Aug. 23 HARDEN, ROGERS & ANNEN, of Peneton, Ind., secured contract for laying about 12,000 sq. yds. brick pavement.

INDIANAPOLIS, IND.—We are officially advised that a contract for 12,000 sq. yds. of bitulithic pavement has been awarded the WESTERN CONSTRUCTION CO., of Lafayette, Ind.

GREENCASTLE, IND.—Bids are asked by the Commissioners of Putnam County until noon, Sept. 3, for construction of 13,248 ft. of macadam road in Monroe Township, known as the Young Road. C. C. Hurst, County Audr.

DECATUR, IND.—Bids are asked by the Commissioners of Adams County until 10 a. m., Sept. 3, for construction of a macadam road in Washington Township. C. D. Lewton is Audr.

Bids are asked by the Board of Commissioners of Adams County until noon, Sept. 3, for construction of a gravel road in Preble Township, known as the Worthman Road. C. D. Lewton is County Audr.

INDIANAPOLIS, IND.—It is reported that Leonard St. and Belleville Ave. will be improved by grading, constructing cement walks, etc. A local sewer will be laid in Walnut St. Blaine H. Miller is City Engr.

FREEPORT, ILL.—Ordinances have been passed by the Village Board for paving with brick Stephenson St. and Buchard Pl. Estimated cost, $10,000. Ordinances have also been passed for macadamizing Harlem Ave. Estimated cost, $7,900.

WHEATON, ILL.—Bids are asked by the Board of Local Improvements until Sept. 4 for the improvement, adjusting manholes, catch basins, lamp holes and flush tanks, constructing new catch basins, constructing cross walks with cement walk headers, curbing, grading and paving, the roadways of a system of streets. The contractors will be paid in cash. E. M. Reber is Mayor; C. A. Prout is City Engr.

ALTON, ILL.—We are officially informed that on Aug. 18 the Board of Public Improvements, Alton, awarded contract for paving Twelfth St. to B. B. STAKEMILLER, at $11,250. T. M. Long is City Engr.

WASHINGTON, ILL.—A. D. THOMPSON, of Peoria, Ill., is reported to have secured the contract for paving Walnut and Peoria Sts., at $12,914 and $6,090, respectively.

DIXON, ILL.—Bids are asked until 2 p. m., Sept. 8, by the Board of Local Improvements for constructing about 30,000 sq. ft. cement sidewalks.

KENOSHA, WIS.—JOHN O. JONES, of Racine, Wis., has secured contract for paving Park and Crate Sts., Kenosha, at $45,000.

IOWA CITY, IOWA.—We are officially advised that WILLIAM HORRABIN has secured contract to lay 1,987 additional sq. yds. of bitulithic pavement in this city.

HELENA, MONT.—Bids are asked until Sept. 3 for grading, curbing and constructing parks in the West Side Improvement District. Estimated cost, $130,000. J. H. Farmer is City Engr.

HOUSTON, TEX.—The City has awarded contract to A. T. LUCAS for paving Main St. The surface will be covered with brick.

ENID, OKLA.—The City Council of Enid, on Aug. 18, awarded to the WARREN QUINLAN ASPHALT PAVING CO., of Syracuse, N. Y., contract for street paving in Enid, amounting to $225,000.

TACOMA, WASH.—The contract for paving the west end of Division Ave. and L, M, N, and O Sts. between Division and Sixth Aves., has been awarded by Owen Woods, Comr. Pub. Wks., to the INDEPENDENT ASPHALT PAVING CO. The contract price was $56,473. The only other bidder was the Barber Asphalt Paving Co., at $60,276.

SEATTLE, WASH.—We have been officially advised that contracts have been awarded for paving Taylor Ave. and other streets to SANFIELD & GIFFORD, at $17,771, and for constructing wooden sidewalks on Eighth Ave. to J. A. BAILEY, at $9,773. R. H. Thomson is City Engr.

WALLA WALLA, WASH.—We are officially informed that the WARREN CONSTRUCTION CO., of Portland, Ore., has secured a contract for 2,700 sq. yds. of bitulithic pavement.

SALT LAKE CITY, UTAH.—We are officially advised that S. BIRCH, Salt Lake City, on Aug. 13, secured contract for constructing combined curbing and guttering for this city, at $27,131. Other bidders were: P. J. Moran, $29,525; Hanley & Ritchie, $28,280; McDonald & Doyle, $31,435. Louis C. Kelsey is City Engr.

OTTAWA, ONT.—The contract for paving Elgin St. from Albert St. to the Driveway has been awarded to the WARREN BITUMINOUS PAVING CO., of Toronto, at $65,892.

MANUFACTURING PLANTS.

The names of parties awarded contracts are printed in capital letters.

NEW BEDFORD, MASS.—An addition to the Kilburn mill is being contemplated by the management, it is reported, and, although the plans are not yet completed, so far as prepared, they call for a spinning department of considerable dimensions.

SPRINGFIELD, MASS.—The Knox Automobile Co. is preparing plans for a building to be used for machine departments. It is to be a 4-story, brick building, 50 × 225 ft. Equipment will be needed.

PROVIDENCE, R. I.—The contract for erecting the new cotton mill of the Warren Mfg. Co. has been awarded to E. K. WILSON & CO., of this city. The main building is to be 129 × 241 ft., three stories high, to be built of brick. The construction will cost about $100,000 and the company will spend about $300,000 on equipment.

ALBANY, N. Y.—Frank B. Graves, whose wool and shoddy mill on Arch and Church Sts., was destroyed by fire recently, has determined to rebuild on the old site, and has already outlined his plans for the new structure. The construction will be of fireproof material, iron and reinforced concrete.

FULTONVILLE, N. Y.—The L. M. Blumstein Silk Fabric Co. has been incorporated with a capital of $100,000. The directors are: Louis M. Blumstein, H. S. Blumstein, William Blumstein, Fanny S. Blumstein and Dennis A. O'Brien, of Fultonville.

NEW BERLIN, N. Y.—E. E. Elwood of Shamokin, Pa., proposes to start a silk mill at this place.

CAMDEN, N. J.—The Southwark Mfg. Co. has received bids and will soon award the contract for erecting a manufacturing plant consisting of machine shops, mill and dye house. It is to be 170 × 275 ft. and 40 × 140 ft. Power plant and special equipment required.

PHILADELPHIA, PA. — It is reported that Armour & Co., of Chicago, will erect a large packing plant and cold storage warehouse in this city. It is to be a 6-story, 100 × 160 ft. brick and concrete building of fireproof construction. It is to be erected on Noble St. R. C. Clark of Chicago, is Arch.

Bids are asked by Nahm Bros., 185 Berks St., on the erection of an addition to their factory. It is to be a 4-story brick building, 50 × 60 ft. Special equipment will be installed.

T. E. Bennett, Arch., 1022 Walnut St., is preparing plans for a box factory to be erected at 482-84 North Fifth St., for C. F. Datz. It is to be a 3-story brick building, 40 × 102 ft. Power equipment and special machinery will be installed.

SHAMOKIN, PA.—Bids are asked by W. W. Jury, Arch., for the erection of an addition to a hosiery mill for Wm. F. Taubel. It is to be a 4-story building, 80 × 80 ft. of brick. Estimated cost, $50,000. Power equipment and special machinery.

BALTIMORE, MD.—The Hopkins Clothing Co., for manufacturing and dealing in clothing, furnishings and other wearing apparel, has been incorporated by Charles H. Oehm, Frank C. O'Brien, Frederick Heineman and Frederick S. Hall. The authorized capital stock is $200,000.

Frederick Bergner, Pres. of the firm of Frederick Bergner & Co., manufacturers of household novelties, whose factory is now at Cross and Paca Sts., will build a 4-story factory at 117 and 119 South Paca St. The contract has been awarded to JOHN F. KUNKEL & CO. The building will be 55 × 70 ft. and will cost $12,000.

The contract for erecting the addition to the knitting mill of W. J. Knox Net and Twine Co. has been awarded to the FLYNT BLDG. & CONSTRUCTION CO., of Palmer, Mass. The building is to be three stories high, 80 × 200 ft. to be built of brick. Estimated cost, $50,000. Power and special machinery required.

LONACONING, MD.—The contract for the erection of the proposed silk mill in this city has been awarded by the Klots Throwing Co. to S. W. WISE of Cumberland. The building will be two stories high with a basement and engine room, and will cost about $35,000.

NORFOLK, VA.—Chas. Balderston, Arch., 411 Walnut St., Philadelphia, Pa., has received bids for the erection of a bakery for George O. Kolb. It is to be a 2-story brick and steel building, 100 × 110 ft. Power equipment and special machinery will be required.

GASTONIA, N. C.—Local capital of this city will establish a waste mill, the outlay costing $50,000. The promoters of the enterprise are G. A. Gray, T. M. Passyoux and B. M. Holland. The mill will get its material from the spinning mills in Gastonia.

BRIDGEPORT, ALA.—Bridgeport and Atlanta capitalists propose to establish a farm machinery shop in this city. The new company is to be capitalized at about $300,000.

HAMMOND, LA.—The Hammond Planting & Mfg. Co. is to erect a canning factory in this city.

ANDERSON, IND.—H. L. Duncan is preparing plans for the Indiana Union Traction Co., for a large machine shop and car barns. The main building is to be 80 × 480 ft., two stories high, of brick and steel and of fireproof construction. Estimated cost, $100,000. A. C. Murray is Purchasing Agt., at Anderson.

CAYUGA, IND.—The Acme Brick Co. has incorporated with a capital of $50,000, to erect an immense plant for the manufacture of brick, tile, sewer-pipe and other material and products made of clay, sand, lime and cement. Chas. P. Stevens, A. F. Carlson and C. N. Stevens, directors.

HAMMOND, IND.—D. A. Sherwin, representing the packing firm of Schwarzchild & Sulzberger, has secured a site in this city upon which to erect an immense packing plant. Plans will be ordered immediately.

INDIANAPOLIS, IND.—The Indianapolis Composite Brick Co. announces that it will soon begin the erection of a large factory building on Homestead Ave. Plans are now being made. Laurence Elkus is Pres.

MADISON, IND.—The Heise Milling Co., recently incorporated with a capital of $50,000, will establish, build and equip a large steam flour mill, elevator and warehouse in this city. Plans are now being prepared. Herman H. Heise is Pres., and Hiram Francis is Secy.

SUMMITVILLE, IND. — The Summitville Drain Tile Co. has incorporated with $75,000 capital stock. The company proposes to establish and build a large plant to manufacture drain tile and other clay products. Thos. G. Barry, Jas. F. Morris and George T. Evans are incorporators.

DETROIT, MICH.—The Detroit Sanitary Supply Co. is to erect a large manufacturing plant at Second Ave. and Antoinette St. Plans have been made and contracts let by Donaldson & Meier, Archs., 1314 Penobscot Bldg., for four buildings, including a main building, two stories high, 58 × 135 ft., which will be of brick, cut stone and cement. In connection with the above but separated from it by thick fire walls a 2-story fireproof structure will be constructed in which will be located toilet rooms, lockers and pattern vaults. A 1-story building, 54 × 120 ft. will be used as a foundry. A power house 32 × 88 ft. will complete the present equipment. The contracts for construction have been let as follows: Mason work, MARTIN SCHOLL, JR.; carpentry, painting and glazing, the VINTON CO.; cut stone, to WILLIAM PIGGINS SONS, and the iron and steel work to the RUSSEL WHEEL & FOUNDRY CO.

The Lavigne Mfg. Co. is to erect a factory on National Ave. Rogers & Macfarlane, 1310 Penobscot Bldg., are Archs.

CHICAGO, ILL.—The American Tobacco Co. proposes to erect a factory on the West Side of Chicago.

JOLIET, ILL.—The Joliet Concrete Construction Co. has been incorporated with a capital stock of $25,000 and proposes to erect a plant here as soon as possible and begin the manufacture of cement and concrete products. The incorporators are A. O. Brown, Robert Morrison and John Stromback. A. O. Brown is Pres.

DES MOINES, IOWA.—The Des Moines Hosiery Mills Co. has awarded the contract for the erection of its new water softening plant to the DODGE MANUFACTURING CO. Estimated cost, $3,000.

TOPEKA, KAN.—The Atchison, Topeka & Santa Fe Ry. Co. is to erect new shops here which are to cost $275,000. The new shops include a big freight repair shed, a structural steel car shop, a planing mill, a dry kiln, an engine room, and a wheel shop. The plans were prepared by W. B. Storey, Ch. Engr., and have been approved by J. E. Hurley, Gen. Mgr.

ST. LOUIS, MO.—F. Rusicka will erect a 3-story brick factory building, at a cost of $7,500.

The Hamilton-Brown Shoe Co. proposes to erect a large addition to its factory at Eighth, Ninth and Carroll Sts. The building will have a 300-ft. front.

ABERDEEN, WASH.—Bids are asked by the Beach Packing Co. for the erection of an ice and cold storage plant.

SNOHOMISH, WASH. — The Snohomish Electric Light & Water Power Co. has plans ready for a 10-ton ice plant and cold storage building to be erected at First and Maple Sts. O. Lewis is Mgr.

SPOKANE, WASH.—It is reported that the Crescent Rotary Engine Co. will erect a factory east of this city at a cost of $100,000.

WINLOCK, WASH.—Emory & Burnett will move their sawmill to point on N. P. Ry., near Ainslie, 4½ miles from here, where they will be rebuilt on larger scale. Present capacity is 28,000 ft. daily. Two new boilers of 280 HP. will be installed and new 54-in. edger. Improvements will cost $10,000.

ANDERSON (Selma post-office), ORE.—G. M. McDowell, Engr., 250 Alder St., Portland, Ore., has prepared plans for the new plant of the Unique Brick Co., of which B. F. Hoover is Pres. and Mgr. The plant will be located at Hoover, a new station on the line of the O. W. P. & Ry. Co., between Anderson and Healy. It will have a capacity of 70,000 bricks a day, and will be equipped with steam. The power machinery will be furnished by the ERIE ENGINE WORKS, of Erie, Pa. Estimated cost, $25,000.

PORTLAND, ORE.—The Cement Products Co. has been incorporated by Frank B. Chambers, F. H. Hilliker, and James M. Naughton, capital stock $25,000, for the purpose of establishing a plant for the manufacture of ornamental block and building blocks.

MOSCOW, IDAHO.—A. Anderson and Neil Quesnall, inventors of combined harvester, announce that they will erect a manufacturing plant to cost about $40,000.

CHARLOTTETOWN, P. E. I.—Bids are asked until Sept. 4, by the Prince Edward Island Ry. Co., for the erection of a car shop. D. Pottinger is Gen. Mgr.

WINNIPEG, MAN.—The Ajax Mfg. Co. has been incorporated with a capital stock of $100,000. Office at Winnipeg.

The North Western Stock Yards & Transit Co. has been incorporated with a capital stock of $250,000. Headquarters are at Winnipeg.

MISCELLANEOUS CONTRACTS.

The names of parties awarded contracts are printed in capital letters.

IRRIGATION CANAL.—Wenatchee, Wash. —The Wenatchee Canal Co. will let contract about Sept. 1 for building a canal to cost about $150,000.

PIER REPAIRS.—New York, N. Y.—Bids are asked until noon, Sept. 4, by J. A. Bensel, Comr. Docks, for making repairs to piers No. 103 and No. 104, East River.

DITCH.—Madison, Minn.—Bids are asked until Sept. 7 by John B. Oadion, County Audr., for constructing ditch No. 5, requiring about 79,950 ft. open ditch. Estimated cost, $20,194.

ROCK REMOVAL.—New London, Conn.—Bids are asked until noon, Sept. 27, for rock removal in New London Harbor. Maj. Harry Taylor, Engr. (Advertised, Engineering News.)

LEVEE.—New Orleans, La.—Bids are asked until 11 a. m., Sept. 14, by Capt. J. F. McIndoe, Engrs., for constructing about 245,000 cu. yds. of levee work in the Pontchartrain Levee District.

HEADSTONES.—Boston, Mass.—Bids are asked until 1 p. m., Aug. 31, by Geo. L. Goodale, Depot Q. M., for furnishing 11,000 American white marble headstones to Quartermaster's Department, U. S. Army.

BOILER.—Wilmington, N. C.—Bids are asked until noon, Sept. 24, by Capt. R. P. Johnston, Engrs., for one boiler of the locomotive type for U. S. Clamshell Dredge "Ajax." (Advertised, Engineering News.)

DREDGING.—New York, N. Y.—Bids are asked until noon, Sept. 28, for dredging in Passaic River, N. J., Col. W. R. Livermore, Engrs., Army Bldg., 39 Whitehall St., New York. (Advertised, Engineering News.)

JETTY AND DIKE.—Wilmington, Del.—Bids are asked by Maj. C. A. F. Flagler, Engrs., until 11 a. m., Sept. 24, for jetty and dike construction at mouth of Mantua Creek, N. J. (Advertised, Engineering News.)

DITCH.—St. James, Minn.—Bids are asked until Sept. 11 by the Board of County Commissioners for constructing Sections One to Eight inclusive of Ditch No. 4. Estimated cost, $35,097. M. G. Fossum is County Audr.

RECLAMATION SERVICE PROJECTS.—A list of the principal contractors for work being carried on or completed under the supervision of the Reclamation Service will be given under Miscellaneous Contracts next week.

STEEL DREDGE, TEN PONTOONS.—Cincinnati, Ohio.—Bids are asked until 10 a. m., Sept. 25, by Lieut.-Col. Wm. T. Rossell, Engrs., for construction of steel dredge and ten pontoons. (Advertised, Engineering News.)

DREDGING, ROCK REMOVAL.—New York, N. Y.—Bids are asked by Col. W. R. Livermore, Engrs., Army Bldg., until noon, Sept. 24, for dredging and rock removal in Middle Reef, at Hell Gate, N. Y. (Advertised, Engineering News.)

NAVAL SUPPLIES.—Washington, D. C.—Bids are asked until 10 a. m., Sept. 18, by the Bureau of Supplies and Accounts, Navy Dept., for furnishing various naval supplies to several navy yards. H. T. B. Harris, Paymaster-Gen.

DITCH.—Vandalia, Ill.—The contract for excavating about 136,000 cu. yds. earth in main ditch of Fish Lake Levee and Drainage District, bids opened Aug. 14, has been awarded to R. H. McWILLIAMS, of Mattoon, Ill., at 17.9 cts. per cu. yd.

DRAIN.—Cornwall Center, Ont.—Bids are asked by John Mullin, Clk. Cornwall Township, until noon, Aug. 31, for construction and completion of the McDonald Creek drain. Total length, 4½ miles. Bids will be received also for construction of Bonville Creek drain.

DREDGING.—Seattle, Wash.—Bids were received by Major H. M. Chittenden, Engrs., as follows, on Aug. 17, for dredging Gray's Harbor: Puget Sound Bridge & Dredging Co., Seattle, 33¼ cts. a cu. yd.; International Contracting Co., Seattle, 38.8 cts. a cu. yd.

FERRY BUILDINGS.—New York, N. Y.—Bids are asked until noon, Sept. 6, by J. A. Bensel, Comr. Docks, for removing old structures between 38th and 39th Sts., Boro. Brooklyn, and for building new ferry structures for 39th St. ferry terminal, and for dredging.

TELEPHONE IMPROVEMENTS.—Youngstown, Ohio.—The United States Telephone Co. will spend about $100,000 in improvements in Youngstown this fall, erecting some new main lines and placing a number of its lines underground. M. B. Overly is Gen. Mgr., Cleveland, Ohio.

OIL WELLS.—Covington, La.—A new oil field is reported to have been discovered in St. Tammany parish, and a number of wells are being driven while large quantities of material have been ordered. The field is on the line of the recently completed New Orleans Great Northern Ry.

DREDGES.—St. Louis, Mo.—Bids were received by Lt.-Col. Clinton B. Sears, Engrs., Aug. 20, for construction and delivery of two self-propelling hydraulic dredges and their pontoon pipe lines. We are officially advised that the bids were considered excessive and recommendation will be made that they be rejected. The work probably will be done with hired labor and purchase of material and parts. The price was $485,000.

DREDGING.—Wilmington, Del.—Bids were received as follows on Aug. 25 by Major C. A. F. Flagler, Engrs., for dredging Cooper Creek, N. J.: River & Harbor Imp. Co., Philadelphia, Pa., 24 cts. a cu. yd.; American Dredging Co., Philadelphia, Pa., 25 cts.; Jno. L. Mills Co., Camden, N. J., 30 cts.

RETAINING WALL.—Oneida, N. Y.—No bids were received for the work of constructing a vertical retaining wall on west side of Oneida feeder at Oneida, N. Y. Date for opening bids was Aug. 22. N. V. V. Franchot, Supt. Public Works, Albany, has charge of the work. Noted fully on Aug. 16.

FERRY STRUCTURES.—New York, N. Y.—Bids are asked until noon, Sept. 7, by J. A. Bensel, Comr. Docks and Ferries, for removing old structures between Water St. and Canal St., Stapleton, Boro. of Richmond, and for building new ferry structures for the new Stapleton Ferry terminal, and for dredging.

SUBWAY AND TUNNEL.—Minneapolis, Minn.—Bids are asked by the Twin City Rapid Transit Co., Minneapolis, Minn., until Sept. 15, for constructing subway and tunnel for double track. Plans and specifications can be seen at the offices of the company. G. L. Wilson, Engr. (Advertised Engineering News.)

STEEL WHARF.—New Orleans, La.—Bids will be received about Jan. 1, we are officially advised, by Bureau of Yards and Docks, Navy Dept., Washington, D. C., for steel wharf, on creosoted piles, at New Orleans Navy Yard. Estimated cost, $40,000. Wharf is to have timber floor with 80-lb. railroad tracks.

SEA WALL.—Philadelphia, Pa.—Bids are asked until 11 a. m., Sept. 8, by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for constructing a sea wall near new dry dock, League Island Navy Yard. Mordecai T. Endicott, Ch. Bureau. Specifications are on file at office of Engineering News, New York.

SUBWAY.—Toronto, Ont.—We are advised that by-law has been passed to provide money for the construction of the Lansdowne Ave. Subway in this city and plans and specifications therefor are now being prepared. As soon as these are ready bids will be invited for the construction of this work. C. H. Rust, City Engr.

NAVAL SUPPLIES.—Washington, D. C.—Bids are asked until 10 a. m., Sept. 11, by Bureau of Supplies and Accounts, Navy Dept., for furnishing naval supplies at several navy yards. H. T. B. Harris, Paymaster Gen., U. S. N. Bids are asked until Sept. 25, by same bureau for machine tools, etc., for several navy yards.

LEVEE.—New Orleans, La.—The only bid received and opened on Aug. 9 by Capt. J. F. McIndoe, Engrs., for 816,000 cu. yds. of levee work at Bougere, Lower Tensas Levee District, was submitted by Helgason Bros., of Vicksburg, Miss., at 32.95 cts. per cu. yd. Total cost, $104,122. This bid has been recommended for acceptance.

LEVEE.—New Orleans, La.—The bid of R. T. Clark & Co., of Natchez, Miss., for 362,000 cu. yds. of earthwork at Bougere, in the lower Tensas Levee District, received on Aug. 17 by Capt. J. F. McIndoe, Engrs., has been recommended for acceptance. Bid was 36½ cts. per cu. yd., to be completed in 16 months; total cost about $132,130.

DITCHES.—Martinton, Ill.—We are officially informed that the Commissioners of Martinton Drainage District No. 8 will let contract during latter part of September for about 500,000 cu. yds. of work on the ditches in the district, about 300,000 cu. yds. of which will be dredge work and the balance scraper work. A. C. Morrison, Donovan, Ill., is Pres. Estimated cost, $50,000.

TWO PIERS.—North Chicago, Ill.—Bids are asked until 10 a. m., Sept. 18, by Bureau of Supplies and Accounts, Navy Dept., for constructing two pile and timber protection piers at the naval training station, Great Lakes, North Chicago, Ill. Applications for proposals should refer to Schedule 113. H. T. B. Harris, Paymaster-Gen., U. S. N.

TUNNEL.—Sarnia, Ont.—The ABBOT-GAMBLE CO., 32 Broadway, New York, has been awarded contract by the Westinghouse Electric & Mfg. Co., of Pittsburg, Pa., for the following work in connection with the electrification of the Sarnia tunnel for the Grand Trunk Railway: Foundations for the power house, the building of the pedestals for the bridges and the laying of the conduits in the tunnel.

SLUICING GATES.—Yuma, Ariz.—The Secretary of the Interior has granted an indefinite extension of time to the LLEWELLYN IRON WORKS, of Los Angeles, Cal., for the completion of the installation of sluicing gates in connection with the Salt River project, Ariz. The extension of time is granted because at this time it is impossible to state when the structures in which these gates are to be installed will be completed.

STOP COCKS.—Washington, D. C.—Bids were opened Aug. 18 at the office of the Commissioners of the District of Columbia, Washington, D. C., for furnishing 10,000 brass stop cocks, more or less. The bids were as follows: J. P. Smith Mfg. Co., Newark, N. J., 58½ cts. each; Bridgeman Bros. Co., 1426 Washington Ave., Philadelphia, 65 cts.; G. & W. Mfg. Co., 26 Cortlandt St., New York, 57 cts.; H. Mueller Mfg. Co., 254 Canal St., New York, 54½ cts.; Wm. Powell Co., Cincinnati, Ohio, 47 cts.

DAM WORK.—Billings, Mont.—The Secretary of the Interior has authorized the engineers of the U. S. Reclamation Service to continue the construction work on Shoshone dam and on the Corbett tunnel, Shoshone irrigation project, Wyo., by force account. The contract for the construction of Shoshone dam with Prendergast & Clarkson, of Chicago, Ill., and that for the construction of Corbett tunnel, with Charles Spear, of Billings, Mont., were recently suspended by the Secretary of the Interior by reason of the fact that the contractors were unable to secure the necessary laborers and financial backing to prosecute successfully the work.

READERS' WANTS FOR THOSE IN THE MARKET The readers of ENGINEERING NEWS are constantly in the market for great quantities of machinery, tools and general supplies. While our thousand advertisers are usually able to furnish the material desired, yet there are many things wanted by our readers that are not advertised, although connected with engineering and contracting directly or indirectly. This department (R-W) is for this class of inquiries, and we urge our readers to keep us informed. Enclose five cents in stamps and we write to a number of leading manufacturers without further cost. When writing to our advertisers, who are the leaders in their respective lines, mention **Engineering News.** Have you a copy of our Buyers' Guide? **Engineering News Can Help Buyers.**

TURBINE WHEELS.—Norfolk, Va.—P. C. Warwick, Jr., P. O. Box 786, Norfolk, Va., informs us that he desires to communicate with concerns manufacturing turbine wheels.

PASTE BOARD BOX MACHINERY.—Boalsburg, Pa.—F. H. Fisher, Boalsburg, Pa., writes us that he desires to purchase machinery for the purpose of manufacturing paste board boxes.

CONCRETE CONSTRUCTION CATALOGUES.—Salem, Mass.—George C. Gibbs, Salem, Mass., informs us that he desires catalogues, etc., pertaining to general concrete construction.

CRUSHING OUTFIT, ENGINE, BOILER, DRILLS, ETC.—Durham, N. C.—We are informed that the Wendell Quarry Co., Durham, N. C., is in the market for a 200-ton crushing outfit, including engine, boiler, drills, etc.

LIGHT DREDGES.—Lima, Peru.—We are in receipt of a letter from H. S. Osment, Consult. Engr., Correo Casilla 828, Lima, Peru, in which he states he desires to communicate with American manufacturers of light dredges for digging a long irrigation canal.

ELECTRO-GALVANIZING OUTFIT.—Syracuse, N. Y.—William M. Booth, Engr., Dillaye Bldg., Syracuse, N. Y., desires to communicate with firms manufacturing dynamos to be used in connection with an electro-galvanizing outfit.

AERIAL TRAMWAY.—Muskogee, Ind. T.—We are in receipt of a letter from Frank T. Swift, Muskogee, Ind. T., in which he states he is in the market for a tramway for carrying gravel across the Arkansas River, to cars, a distance of about 1,500 ft.

CONTRACTOR'S EQUIPMENT.—Millersburg, Pa.—Frederick & Bradenbaugh, Contractors, Millersburg, Pa., inform us that they are in the market for a triplex pump, pipe, hydrants, valves, cement, crushed stone, etc., to be used in the rebuilding of the Parksburg, Pa., water-works.

SAND-BLAST MACHINERY.—Harrisburg, Pa.—The Sanitary Dust Removing Company of Central Pennsylvania desires to communicate with firms making an apparatus for cleaning brick or stone work by sand blast. Also the names of firms making an apparatus for applying paint or whitewash to walls, in a spray by compressed air.

REMOVING PIERS, BUILDING FERRY TERMINALS.—New York, N. Y.—Bids were received as follows Aug. 24 by J. A. Bensel, Comr. of Docks, for removing old piers and ferry structures between Whitehall and Broad Sts., East River, Boro. of Manhattan, and for building new ferry structures for the new 39th St. ferry terminal and for dredging: William H. Jenks, 129 Pearl St., $328,734; George B. Spearin, 17 Battery Pl., $301,727; B. Rolf, 39 Cortlandt St., $304,333; Northeastern Construction Co., 949 Broadway, $317,255; Phoenix Construction & Supply Co., 41 Park Row, $314,466; Lawler Bros. Construction Co., 21 Park Row, $312,625; G. W. Rogers, 44 Broadway, $346,730.

PENUMATIC TUBE SERVICE.—Washington, D. C.—Bids are asked at the office of the Second Assistant Postmaster-General, Post Office Dept., Washington, D. C., until 4.30 p. m., Sept. 18, for the performance of mail service by pneumatic tubes or other similar devices at the following named cities and between the points and for the contract terms stated in the pamphlet advertisement of this date: Boston, Mass.; Boro. of Brooklyn, New York, N. Y.; New York, N. Y.; Philadelphia, Pa.; Pittsburg, Pa.; Baltimore, Md.; Cincinnati, Ohio; Kansas City, Mo.; San Francisco, Cal.; Chicago, Ill.; St. Louis, Mo. Pamphlet copies of the advertisement may be obtained on application from the postmaster at any city named or from the office of the Second Assistant Postmaster-General. F. H. Hitchcock, Acting Postmaster-General.

CANAL WORK.—Arizona.—On Jan. 13, 1906, the Secretary of the Interior made an additional allotment of $375,000 to the Salt River irrigation project, Ariz., for the construction of a diversion dam, head works and new canal on the upper two miles of the existing system, and he has now authorized the engineers to proceed with the work of construction under force account. On account of the flood conditions in the valley the work of construction will be intermittent in character and the engineers of the Reclamation Service can take advantage of favorable conditions in the river for constructing difficult parts of the work. The losses of time occasioned by advertising for bids and awarding contracts were also taken into consideration. It is believed that water can be diverted into the canal at least a year sooner and that many thousands of dollars will be saved to the settlers by conducting the work under force account.

CANAL WORK.—Mitchell, Nebr.—The Secretary of the Interior has made the following awards for earthworks of distributing system in connection with the Interstate Canal, North Platte Project, Nebr.: Schedule 1, to J. W. McNEEL, Morrill, Nebr.; Schedule 2 to DEADWOOD CONSTRUCTION CO., Deadwood, S. Dak.; Schedule 3 to JERRY HURLEY, Pratt, Wyo.; Schedule 4 to FLOWER & TWING, Morrill, Nebr.; Schedule 5 to MANEY BROS. & CO., Oklahoma City, Okla.; Schedule 6 to HOBBS, McELROY & McELROY, Morrill, Nebr.; Schedules 7 and 8 to JAMES O'CONNOR, Mitchell, Nebr.; Schedules 10 and 11 to MARCUS E. GETTER, Mitchell, Nebr.; Schedule 9 to D. R. NOE, Morrill, Nebr.; Schedule 12 to FRANK KYNEGAR, Mitchell, Nebr.; Schedule 13 to PICKERING & RUSH, Morrill, Nebr.; Schedule 14 to C. E. CHEESMAN, Mitchell, Nebr.

The Secretary of the Interior has authorized the U. S. Reclamation Service to organize a force to carry on the work of repairing and maintaining the Interstate Canal, North Platte irrigation project, Wyo. and Nebr. This authority carries with it an appropriation of $12,000 for the purchase of horses, tools, etc. In addition to repairs on account of erosions, wash outs, etc., the work will consist of putting in small drains, inlets to take small amounts of surface water into the canal, paving around outlets, and other work which would necessitate a multitude of small contracts, causing delays and increasing the cost.

PLANS AND SPECIFICATIONS.—A list of the plans and specifications which are on file at office of Engineering News, New York, for miscellaneous projects, for which bids are being asked, is given on first page of Construction News supplement.

U. S. POSSESSIONS AND CUBA.

The names of parties awarded contracts are printed in capital letters.

ENGINEERING SUPPLIES.—Panama.—Specifications will shortly be issued by the Isthmian Canal Commission calling for 5,000 sheets galvanized iron, 40,000 sheets corrugated galvanized steel roofing, 30,000 ft. galvanized steel ridge roll, 6,360,000 lead disks, and a large quantity of miscellaneous tools and machine tools.

EARTH-SPREADERS.—Panama.—Bids were opened Aug. 25, at the office of D. W. Ross, Gen. Purchasing Officer, Isthmian Canal Com., for ten earth-spreaders. Bids were as follows: Mann, McCann Co., Chicago, Ill.: $51,900; Oswald F. Jordan, Chicago, Colon delivery, $54,500; Illinois delivery, $47,000; Wm. J. Oliver Mfg. Co., Knoxville, Tenn., operated by hand winches, $33,000; operated by compressed air, $36,000.

LUMBER, Panama.—Bids are asked until 10.30 a. m., Sept. 8, at the office of the Isthmian Canal Commission, Washington, D. C., for 8,510,000 ft. B. M., of lumber, long-leaf yellow pine, redwood, or Douglas fir, for the canal, as follows: 1,100,000 ft. S. 1 S.; 295,000 ft. rough; 1,150,000 ft. S. 4 S.; 500,000 ft. S. 1 S. 1 E.; 1,075,000; 1,000,000 ft. flooring; 2,000,000 ft. ceiling; 600,000 ft. drop siding; 75,000 ft. molding; 30,000 ft. threshold. David W. Ross, Gen. Purchasing Officer.

DYNAMITE.—Panama.—Bids were opened Aug. 24 at the office of David W. Ross, Gen. Purchasing Officer, Isthmian Canal Com., Washington, D. C., for 400,000 lbs. saltpeter dynamite, 45%, and 100,000 lbs. saltpeter dynamite, 60%. Bids were as follows: Laflin & Rand Powder Co., New York, $57,750, time, 30-45 days; California Powder Works, San Francisco, Cal., $67,000, time, 120 days; Fairbanks Co., New York, $68,250, time, 14-90 days; Fox Bros. Co., New York, $58,000, time, 100 days; National Powder Co., New York, New York delivery, $54,750, Colon delivery, $61,000, time, 100 days. The contract has been awarded to the LAFLIN & RAND POWDER CO.

FOREIGN CONTRACTS.

The names of parties awarded contracts are printed in capital letters.

QUAY.—Italy.—The Venetian Harbor Works Commission has approved a project to construct a new quay at Venice. Estimated cost is 5,500,000 lire (about $1,100,000).

TRAMWAY EXTENSION.—Italy.—The Ministry of Public Works has sanctioned schemes for the improvement and extension of the tramway systems of Bologna and Florence.

ELECTRIC MACHINERY.—Uruguay.—The municipality of Montevideo, Uruguay, has authorized the Empresa de Luz Electrica to adapt its plant to supply power for electric trams.

ELECTRIC LIGHTING.—Argentina.—The Liga Comercial, of Mar del Plata, Argentina, has applied to the Compania de Electricidad del Plata for extension of the electric lighting service.

PUMPS AND MACHINERY.—Spain.—The Sociedad de Minas y Sondeos, of Barcelona, Spain, propose to renew operations at their copper mines, and will require machinery, pumps, etc.

RAILWAY.—Cape Colony.—A bill is under consideration providing for the construction, equipment and working by the Cape Government of certain lines of railway in the Colony. The length of line to be constructed is about 711 miles, at an estimated cost of £3,403,580 ($16,541,400).

CANAL IMPROVEMENTS.—Belgium.—Bids are asked until Aug. 31 for work connected with the improvement of the canal from Ghent to Bruges, in the neighborhood of the Lovendegem and Meerendre bridges, at an estimated cost of about $75,300. Bids must be delivered at the Hotel des Ponts et Chaussees, 22 Rue Basse des Champs, Ghent.

QUAY.—Spain.—Bids are asked until Sept. 13, at the Directorate General of Public Works, Madrid, for the extension of the Lage quay, and the provision of accommodation for travellers at the port of Vigo, at the estimated cost of 223,000 [illegible] pesetas (about $44,600). A deposit of 11,1[illegible] pesetas (about $2,000) is required to qualify [illegible] bid. Local representation is needed.

WATER-WORKS.—Italy.—T[illegible] British Vice-Consul at Salerno, P. Cons[illegible] reports a proposal to bring good drink[illegible] water into Salerno from Acerno. This [illegible] involve a tunnel about three-quarters [illegible] a mile in length and a capital expend[illegible] of about $400,000. The matter is in th[illegible] hands of the Roman Aqueduct Company, a[illegible] the preliminary difficulties have been ove[illegible].

RAILWAY EXTENSION.—[illegible]guay.—The Uruguay Great Eastern Railw[illegible] will be extended, it is reported, from i[illegible] present terminus, La Sierra, to San Carl[illegible] in the Department of Maldonado, a dis[illegible] of about 30 miles. In the southeastern [illegible] of Uruguay the country is rugged a[illegible] broken, and the construction of the line will [illegible] expensive, costing about $35,000 per kilom[illegible].

HYDRAULIC WORKS: TO[illegible]CO MACHINERY.—Italy.—The British [illegible]ce-Consul at Bari, E. Berner, reports tha[illegible] contribution of 900,900 lire ($180,18[illegible]) has been granted by the Italian Govern[illegible] toward hydraulic works for protecting t[illegible] town from inundations by the Picone torre[illegible] and that the building in Bari of a large to[illegible]co manufactory has been decided upon [illegible] the Government at a cost of 1,000,000 lir[illegible] ($200,000).

RAILWAY CONSTRUCTION.—[illegible]in.—Bids are asked until Nov. 6, at the [illegible]rectorate General of Public Works, Madr[illegible] for the construction and working of a r[illegible]ilway between Ferrol and Betanzos. A [illegible]vernment subsidy of 3,054,508 pesetas (abo[illegible] $610,900), payable in eight annual installm[illegible]s, will be granted to the concessionaire. A[illegible] materials imported for the construction of t[illegible] line and for its working during the firs[illegible] ten years will be exempted from import du[illegible]. A deposit of 145,259 pesetas (about [illegible],000) is required to qualify any bid.

RAILWAY CONSTRUCTION.—Belgium.—Bids are asked by the Societe National des Chemins de fer vicinaux, at 14, Rue de la Science, Brussels, until Oct. 10, for the construction of a section of the railway from Hannut to Huccorgne on the local railways from Hannut to Vinalmont and Burdinne to Huy. The estimated cost of the work is 287,500 fr. ($57,000), and a deposit of 29,000 fr. ($5,800) is required to qualify any bid. Bids by registered letter will be received at the address mentioned above not later than Oct. 9. A copy of the specifications may be obtained on payment of 1 fr. from M. Mahieu, Rue du Moulin, No. 3, Waremme.

TELEPHONE CABLE.—Australia.—Bids are asked by Deputy Postmaster-General, Melbourne, Australia, until Sept. 18, for (1) five miles of 78-pair lead-covered paper-insulated telephone cable, with 20-lb. a mile conductors; (2) 2½ miles of 26-pair lead-covered paper-insulated telephone cable, with 20-lb. a mile conductors; (3) 1¼ miles of 26-pair lead-covered paper-insulated telegraph cable, with 25-lb. a mile conductors. (The conductors to be insulated with two thicknesses of dry manila paper; the diameter and the capacity of the cable not being limited.) A deposit must be inclosed with each tender, in accordance with the provisions of clause 5 of the General Conditions of Contract.

NEGLIGENT PACKING FOR EXPORT TRADE.—Complaints of bad packing by American exporters and of its injurious effect on the export business are common on the part of American consuls, but little seems to have been accomplished as yet in the way of reform. Paul C. Carter, Purchasing Agent in New York, of the Philippine Government, has stated, according to the New York "Commercial," that "there is hardly a week in which I am not compelled to enter strenuous protests against bad packing on the part of firms to whom I send orders. You would be surprised to see what scant attention the average manufacturer gives to the preparation of his invoices, the marking of his cases, etc. One would think that his own self-interest would encourage him to do just a little better than seems to be his present inclination."

HARBOR IMPROVEMENTS, RAILROAD.—New Zealand.—We are officially advised by William A. Prickitt, American Consul-General at Aukland, N. Z., that the Harbor Board of Auckland is engaged in harbor improvement and wharf construction which will take years to complete, and the cost of which is estimated at about $10,000,000. A part of this work is now under contract to the FERRO-CONCRETE CO., an Australian corporation, which is engaged in building a wharf of concrete reinforced with steel. Proposals or bids for this work have been advertised in the United States, at New York and Chicago, but as yet no bids have been received. Any information in regard to this work may be obtained by addressing W. H. Hamer, Eng. to the Auckland Harbor Board.

There is as yet no communication by railway between Auckland and Wellington. The government is at present engaged in constructing a line between Napier and Rotorua, which will complete the connection.

ELECTRIC TRANSMISSION LINE.—South America.—The City of Nichtheroy, some 30 miles north of Rio de Janeiro, South America, has given its name to a new electric transmission system for supplying power and light to the towns of Ca[illegible]tinha and Mage as well as to Nichtheroy. Electricity is to be generated by water power, and transmitted at 44,000 volts to sub-stations at the cities mentioned. The installation is representative of the most modern engineering. At the main generating station the initial equipment will comprise three three-phase revolving field, 2,000-KW. generators built by the GENERAL ELECTRIC CO., of Schenectady, N. Y. These machines, as well as two 75-KW. exciter sets, will be driven by waterwheels made by J. M. VOITH & CO., of Wurtemburg, Germany. The excitation current for the main generators will be furnished at 220 volts, the generator voltage being 2,300. This voltage will be stepped up to 44,000 volts in a bank of six water-cooled transformers, each having a capacity

of 1,000 kilowatt and operating at 60 cycles. There is to be a spare 1,000-KW. transformer and a 3[illegible]00-KW. generator as a reserve. A very complete switchboard will be installed, all switches as well as rheostats being electrically operated from the board by remote control, so that there will be no high tension wiring at the switchboard. From the main generating station the power is to be delivered over a steel tower line to the three sub-stations named in the foregoing. At the sub-stations the transmission voltage is reduced to [illegible]600 volts for the local delivery. For this purpose there will be four 750-KW. transformers at Nichtheroy and four 350-KW. transformers at each of the other stations, Cascatinha and Mage. In each station, one of the four transformers will be installed as a reserve. The complete electrical installation for this development will be furnished by the GENERAL ELECTRIC CO., through its representatives, GUINLE & CO.

RAILWAY PROJECTS.—China.—Construction work on the Canton-Hankow R. R. will begin soon. Money for its construction is obtained by selling $5 shares, for which over $30,000,000 have been already subscribed, $3,000,000 of which is paid up to date. This is the line of the former concession granted to the American-China Development Co., which, on receipt of the sum of $6,750,000 gold, cancelled the concession and returned it to the Chinese government in October, 1905. It is the intention of the Canton-Hankow Ry. Co. to employ four civil engineers, one American, English, Belgian and Japanese each, the American to be the engineer-in-chief. As much as possible of the material used in the construction of the railway will be manufactured in the Hang Yang iron works near Hankow, but as this plant cannot nearly supply the demand, nor turn out a good quality of materials, and also the cost of production is prohibitive, therefore it is the intention of the railway company to buy the greater portion of the railway supplies in America. Wong King Tong is Vice-Pres. of this company, and may be addressed care of the Vice and Deputy Consul-General, at Canton.

Harry L. Paddock, American Consul at Amoy, in a report states that the long-projected Fukien Railway is at last becoming an assured fact. He writes: The Fukien Railway will penetrate both the northern and southern parts of this province and will extend about 1,000 miles. Land is being acquired at various points along the proposed route and work will be commenced here. The Amoy terminus will be located on the mainland known as Sung Su, which faces the city and is about 1½ miles distant and about one mile from the international settlement of Kulangsu. This line will be built to Changchew, whence a southern line will be built through Chao Chow and on until it connects with the Kuang Tung Ry.; from Changchew a northern line will be built through Chuan Chew and Hsing Hua to Foochow. From Foochow the road will further be extended to Yen-ping, whence one branch will be built to Kien-ning and another to Shao-wu, in order to connect with the Chekiang and Kiangsi railways, respectively. This is the present proposed line of railway, and indications would go to show that immediate steps are to be taken to consummate the plan. At least the line between Amoy and Changchew has been decided upon and work is to commence immediately under Mr. Chen, Commissioner of Railroads for this province. The rivalry between France and Japan for the control of the new railroad is decidedly marked, and the rolling stock and railroad supplies will no doubt be furnished either by French or Japanese firms. There is an opening for American railroad engineers in this province, provided prompt action is taken, but at present French control is decidedly marked. Whether American supplies can be introduced at this late date or not is a matter more or less problematical so far as this particular line is concerned, but it is at least worth trying. Improvement in the methods of travel is one of the results of the present progressive movements in China, and railways are being projected in many quarters. At present the only engineers in this port are either Japanese or French, who are on the ground, and consequently in a position to control the railway movement. If American firms intend to avail themselves of this opening market, it would be advisable to have some energetic representatives on the field at an early date.

CIVIL SERVICE EXAMINATIONS

CHICAGO, ILL.—The Civil Service Commissioners of Chicago will hold examinations for the following positions in the classified civil service: William E. Rafferty, Secy., 400 City Hall, Chicago.

ARCHITECTURAL DRAFTSMAN (5th Grade).—Sept. 14. Salary $115 to $130 per month. Applicants should have a good general knowledge of higher mathematics and mechanics and several years' experience in designing buildings.

PITOMETER EXPERT. (Engineering Department.)—Sept. 20. Salary, $250 per month. The work requires a man with a good knowledge of hydraulics, including friction heads and the flow of water in water pipes, and the practical use of pitometers for measuring flow. Local residence waived.

STRUCTURAL IRON DESIGNERS. (For Bridge Department.)—Sept. 18. Salary, from $125 to $150 per month. Technical education required, preferably college education. Also knowledge of higher mathematics and mechanics, and have experience in structural work, principally designing bridges, figuring prices, etc. Applicants should have at least five years' experience as bridge designers, but that is not required. Local residence waived.

ALBANY, N. Y.—The State Civil Service Commission will hold examinations in all parts of the state on Sept. 15, for the following positions: Bridge draftsman, $1,200 to $1,560; bridge designer, $1,500 to $1,800; county engineer, Westchester County, $3,000; engineering draftsman, $4 to $5 a day; instructor in molding, state institutions, $63 a month and board; rodman, $3.50 to $4 a day; sanitary chemist, Department of Health, $1,800; sub-librarian (classification) State Library, $1,200. The last day for filing applications for these positions is Sept. 10. The Commission has been unable to secure a sufficient number of eligibles for bridge designer, bridge draftsman and engineering draftsman, and qualified applicants for these positions have excellent chance of appointment. Charles S. Fowler, Ch. Examiner.

EXAMINER.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on Sept. 19-20 to secure eligibles to fill vacancies in the position of Examiner, at $1,800 a year, and Assistant Examiner at salaries ranging from $1,200 to $1,600 a year, in the Reclamation Service of the Geological Survey, and similar vacancies as they may occur in that service. The duties of the positions are in connection with the purchase of property, securing right-of-way for ditches, preparing abstracts of property, and the formation of contracts. Applicants must indicate in their applications that they have had a high school education or its equivalent, that they have been admitted to the bar, and that they have had at least one year of legal experience in localities where irrigation law is in force. Age limit, 20 to 40 years on the date of the examination. Application Form 1312.

ENGINEER DRAFTSMAN.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on Sept. 12-13-14, to secure eligibles to fill a vacancy in the position of Engineer Draftsman, at $1,500 to $2,000 a year, in the Reclamation Service, Geological Survey, and similar vacancies as they may occur in any branch of the service. Age limit, 20 years or over on the date of the examination. Competitors should bring to the examination room a drawing board not less than 15 ins. square, scale, drawing instruments, drawing pencils, and ink, and, if they so desire, a slide rule. They should bring for use on the second day of the examination a Carnegie Handbook, edition of 1903. Application Form 1312. No application will be accepted unless properly executed and filed with the Commission at Washington. In applying for this examination the exact title as given at the head of this announcement should be used in the application.

AID.—Washington, D. C.—On Sept. 12 and 13 an examination will be held by the U. S. Civil Service Commission at the places mentioned under "D" in section 2 of the Manual of Examinations, revised to July 1, 1906, to secure eligibles to fill vacancies as they may occur in the position of Aid in the Coast and Geodetic Survey, at $720 per annum each. As the Commission has experienced considerable difficulty in securing a sufficient number of eligibles to meet the needs of the service, qualified persons are urged to enter this examination. Vacancies in the position of deck officer as they may occur will also be filled as the result of this examination. Age limit, 18 to 25 years. The medical certificate on the application form must be executed by a medical officer of the Public Health and Marine-Hospital Service, except when this requirement would work a hardship upon an applicant because of his distance from such officer he may have the certificate executed by any physician, in which event, however, he may be required to pass a physical examination before an officer of the Public Health and Marine-Hospital Service before appointment. For a copy of the Manual of Examinations applicants should apply to the Civil Service Commission, Washington, D. C., or to the Secretary of the Board of Examiners at Boston, Mass.; New York, N. Y.; Philadelphia, Pa.; Atlanta, Ga.; Cincinnati, Ohio; Chicago, Ill.; St. Paul, Minn.; St. Louis, Mo.; New Orleans, La.; Denver, Colo.; or San Francisco, Cal. Application Form 1312.

CONSTRUCTING ENGINEER.—Washington, D. C.—An examination will be held by the U. S. Civil Service Commission on Oct. 1, to secure eligibles to fill vacancies in the position of Constructing Engineer, in the Reclamation Service of the Geological Survey, at $150 to $250 a month. The great majority of these positions are for field service in the western part of the United States and in place, remote from cities and ordinary lines of transportation. As the Commission has experienced considerable difficulty in securing eligibles for this position, qualified persons are urged to enter this examination. Applicants will not be required to appear at any place for examination. The examination will consist of the subjects following, weighted as indicated: (1) Education, general and technical, 10; (2) general experience in civil engineering, 20; (3) technichal description, in detail, of some important engineering work designed by or done under the supervision of the competitor, or upon which he was engaged, 20; (4) special experience in construction, 50; total, 100. The classes of construction under subject 4, in which competitors will be rated, are the following: (a) Earthwork, (b) tunneling (hard ground), (c) tunneling (soft ground), (d) concrete work, (e) masonry dams, (f) masonry arches and culverts, (g) masonry retaining walls, (h) structural steel works, (i) bridge work, (j) machine design, (k) architectural design, (l) hydraulic design, and (m) foundations under water. A competitor who, in the judgment of the examiners, should be rated at less than 70 in any special line of work in subject 4 will, by reason of this, be ineligible for that special line. A competitor may submit as many separate statements (each of which will cover one item in subject 4) as he thinks proper. The competitor will be held responsible for the accuracy of the statements made in answer to the questions in this examination, and it will be necessary for him to make sworn declaration of their accuracy, in presence of a notary, who will attest the declaration by affixing his seal, before submitting his application for approval and rating. The competitor will be required to submit with this application the names and addresses of from three to five professional men to whom he is well known and with whom he has had business relations. These references should be able to testify to the good general reputation of the competitor, as well as to his technical experience and skill, both general and special. Age limit 25 to 45 years or over. Application Form 304 and Special Form.

INDUSTRIAL NOTES.

THE TRUSSED CONCRETE STEEL CO., of Detroit, announces that it has opened an office at 1530 Candler Bldg., Atlanta, Ga., under the management of Mr. C. H. Marquess, C. E.

THE AMBURSEN HYDRAULIC CO., Boston, Mass., reports that the Reclamation Service is building, under the company's patents, a concrete-steel dam at the Corbett site in Wyoming; this is in connection with the Shoshone project.

THE STAR DRILLING MACHINE CO., Akron, Ohio, is manufacturing a special machine for boring the holes required for elevator plungers; it is known as No. 25 Elevator Machine. Of these, 31 have been recently sold, the company reports.

THE B. F. STURTEVANT CO., of Boston, has moved its Cincinnati branch office into larger quarters at 329 West 3d St., where a complete stock of blowers, engines, forges, exhaust heads, etc., will be carried. The office is under the management of Mr. E. Worthing.

THE BUFFALO STEEL CO., Tonawanda, N. Y., has increased its boiler and engine capacity and installed automatic hot beds. After having been closed for repairs for two weeks, the mills are again in full operation. A specialty is being made of steel for concrete reinforcement.

THE AMBURSEN HYDRAULIC CO., Montreal, Canada, has recently received a charter from the Canadian Government. Its offices are in the Coristine Bldg., and its officers are the following: David S. Walker, Pres.; Earnshaw Bradley, Secy. and Treas.; Richard S. Lee, Hydraulic Engineer; Wm. L. Church, Consulting Engineer.

THE RISDON IRON & LOCOMOTIVE WORKS, of San Francisco, report what is claimed to be the largest concentrator order in the history of the mining industry. The Utah Copper Co. ordered 80 machines, and before these could be delivered gave a further order for 1,104 machines. The Boston Consolidated Mining Co. has also ordered 234 machines.

THE TRAYLOR ENGINEERING CO., New York City, has sold to the Gold Canon Mining Co., of Gold Canon, Nev., a complete air compressor and drilling plant. The outfit comprises the air compressor, a gasoline engine, an air receiver, air drills, tunnel columns, air hose, drill studs, pipes, valves, fittings and blacksmith's tools. A precisely similar outfit has been ordered by the Cocomongo Gold Mining Co., also of Gold Canon, Nevada.

THE LINK BELT CO., includes the firms hitherto known as the Link Belt Machinery Co., of Chicago; the Link Belt Engineering Co., of Philadelphia, and the Ewart Manufacturing Co., of Indianapolis. The Chicago firm has bought out the other two, but all three plants will continue to operate in their present locations. The officers of the new company include: James M. Dodge, Chairman of Board; Chas. Piez, Pres.; Dyke Williams, Secy.

THE DE LA VERGNE MACHINE CO., New York City, reports the following recent orders for "Hornsby-Akroyd" oil engines: Wheaton Seminary, Norton, Mass., 13-HP.; P. R. Mfg. Co., Detroit, Mich., 50-HP.; Rahr Brewing Co., Oshkosh, Wis., 32-HP.; The Vitagraph Co., Brooklyn, N. Y., 25-HP.; Regal Oil & Gas Co., Chicago, Ill., 65-HP.; L. R. Wright, Pecos, Tex., 13-HP.; Jas. H. Holden, Fall River, Mass., 75-HP.; Borough of Souderton, Suderton, Pa., 50-HP.; James L. Breeze, Southampton, L. I., 35-HP. direct connected to 25-KW. generator.

THE ST. LOUIS HYDRAULIC PRESS BRICK CO., of Cleveland, has absorbed the Cleveland Hydraulic Press Brick Co., of South Park, Ohio, and 13 other companies. The capital stock has been increased from $3,500,000 to $10,000,000, and will be exchanged for the stock of the other companies. The 14 plants in the merger are located in Cleveland, Toledo, Findlay and Zanesville, Ohio; Kansas City and Chanute, Kans.; Kansas City, Mo.; Chicago, Ill.; West Superior, Wis.; Minneapolis, Minn.; Omaha, Neb.; Rochester, N. Y.; Washington, D. C., and Philadelphia, Pa.

THE B. F. STURTEVANT CO., of Boston, Mass., will install mechanical draft in place of chimneys for Crane & Breed Manufacturing Co., Cincinnati, Ohio; A. N. Pierson, Cromwell, Conn.; Rosemary Manufacturing Co., Roanoke Rapids, N. C.; Chesseman Chemical Co., Scranton, Pa.; Hampton Co., East Hampton, Mass. The company's heating and ventilating system has been ordered by Garford Co., Elyria, Ohio; Esmond Mills, Enfield, R. I.; W. W. Gleckner & Sons Co., Canton, Pa.; Lorain Steel Co., Johnstown, Pa.; Brinton Carpet Co., Montreal, P. Q.; York Manufacturing Co., Saco, Me.; Pocohontas Tanning Co., Durbin, W. Va.; Janke & Weise Manufacturing Co., Wausau, Wis.

THE NILES-BEMENT-POND CO., of New York, exhibited at the Atlantic City convention a 90-in. Niles new model driving wheel chucking lathe set on a concrete foundation. The lathe was driven by a 50-HP. motor, with a 7½-HP. motor for operating the tail-stock. The wheels were placed in the machine with a Niles electric jib crane, which, with modern shop conveniences, enables the operator to put a pair of wheels in place in a very few minutes. Although the facilities were far from being equal to those in a modern shop, the records made were not unsatisfactory, four carloads of locomotive driving wheels being turned to demonstrate the great power and capacity of this machine. A time test was made with a pair of 57-in. wheels, which, after being chucked, were completely finished in 39 minutes. A new design of tool post was used on this machine and saved considerable time in the changing of tools. The machine exhibited was one of three sold to the Philadelphia & Reading Ry. to replace a number of smaller machines.

THE NERNST LAMP CO., Pittsburg, reports that the Nernst lamp has been selected for lighting the new station of the Pennsylvania R. R. (Engineering News, Vol. LV., p. 567) building at 31st and 33d Sts. and 7th and 9th Aves., New York City. The indirect system of lighting will be used, employing the inverted style of lamp. These lamps will throw the rays upward, thereby producing a diffused and steady light on the floor. All lamps used in the offices and corridors will be of the ceiling pattern except the desk lamps. About 20,000 glower units will be required for the complete lighting of the station.

THE TRAYLOR ENGINEERING CO., of 118 Liberty St., New York City, represents the consolidation of the Traylor Engineering Co. and the Traylor Manufacturing & Construction Co., of Allentown, Pa. Both concerns belonged to the same stockholders, and operated under mutual contract; they were organized under the laws of New Jersey. The new incorporation provides for a simplification of business methods; it is made under the laws of the State of New York. The capital stock of the reorganized company is $600,000, of which $500,000 has been issued to pay for the properties and business taken over; the balance remains as treasury stock. Samuel W. Traylor is President and Treasurer of the company; Joseph S. Buhler is Secretary.

THE POWER & MINING MACHINERY CO., Milwaukee, Wis., has an order for 12 sets of crushing rolls, 36 × 15 ins., and two sets of crushing rolls 54 × 20 ins. for the Utah Copper Co.'s new plant, near Garfield, Utah. It is stated that the 54 × 20-in. rolls will be the largest of their kind ever built, and that the others will be the most powerful of any crushing rolls ever constructed. These rolls constitute an advance order for one of four units of crushing rolls to be installed in the above plant, which, when completed, will be the largest and most modern concentration plant in the world. The rolls are now being built in accordance with designs made by Mr. George O. Bradley, Consulting Engineer for this plant. They will be extra heavy throughout, and are designed for a spring pressure that will practically make them a rigid roll. Special attention will be paid to lubrication, and removable liners will protect all parts coming in contact with the ore. Included with the above order was also an order for 6-ft. special extra heavy Huntington mills for the regrinding of middlings from the jigs.

THE WESTINGHOUSE MACHINE CO., of East Pittsburg, has recently sold to the United States Government for use in connection with the Panama R. R., two compound steam engines; one direct connected to a 325-KW., 250-volt engine-type generator, and the other to a 200-KW., 60-cycle A. C., two-phase, 220-volt generator. Both operate under a steam pressure of 150 pounds. Two 165 B. H. P. producer gas engines are to be installed in the plant of the Calgary Milling Co., at Calgary, Alberta, Canada. The engines operate at an altitude of 3,000 ft., using anthracite coal for fuel, with possibility of a change to natural gas as soon as supply is obtained. G. & O. Braniff & Co. have ordered a 300-KW. Westinghouse-Parsons steam turbo-generator unit. The turbine will operate on 150 pound steam pressure and 27" vacuum, and will be installed in the plant of S. Roberts & Co., Mexico City, Mexico, generating 50-cycle current at 6,000 alternations. The Rio Janeiro Tramway, Light & Power Co. will install at Rio Janeiro, Brazil, a 300-KW. Westinghouse compound engine unit operating under a steam pressure of 150 pounds and direct connected to a Westinghouse A. C. generator.

THE ALLIS-CHALMERS CO., Milwaukee, Wis., reports the following recent sales: Cleveland Electric Ry. Co., Cleveland, O., 32 × 68 × 60-in. Reynolds heavy duty cross-compound condensing Corliss engine; Boston & Montana C. & S. M. Co., Butte, Mont., two 32 × 72-in. hoisting engines; Elk Cement & Lime Co., Petoskey, Mich., 16 × 36-in. Reynolds Reliance Corliss engine and power station auxiliary apparatus; Ansonia Brass & Copper Co., Ansonia, Conn., 19 × 38 × 42-in. Reynolds combined horizontal and vertical engine with two flywheels; United Gas Improvement Co., Philadelphia, Pa., 26 × 54 × 54-in. Reynolds heavy-duty cross-compound Corliss engine; Salt Lake Tribune Publishing Co., Salt Lake City, Utah, three Reynolds Reliance Corliss engines, three D. C. generators of 100, 150 and 250 KW. capacity, two 25-KW. balancer sets, two 15-KW. balancer sets, complete power station auxiliaries, including boilers, feed-water heaters, switchboard, piping, stack, etc.; Indianapolis, Newcastle & Toledo Ry., Indianapolis, Ind., complete power station, including building and all steam and electrical equipment, consisting of two 1,000-KW. A. C. turbo-generators, six 350-KW. transformers, nine 150-KW. O. F. S. C. transformers, three 150-KW. transformers, four 400-KW. rotary converters, eight 75-HP. quad-railway motor car equipments, eight complete Christensen air brake equipments, complete switchboard equipment, complete boiler plant, three complete sub-stations, and 5,000 tons 70-lb. steel rail complete; Indiana Steel Co., Gary, Ind., seven 2,000-KW. gas engine generating units, two 2,000-KW. direct current gas engine generating units; Illinois Steel Co., Bay View Mills, Milwaukee, Wis., 32 × 42-in. Randem gas engine, 500-KW. direct current generator; Trenton Iron Co., Trenton, N. J., 350-KW. gas engine generating unit; Caddo River Lumber Co., Prescott, Ark., band mill, carriage, edger, trimmer, slasher, transmission machinery, etc.; Sale Davis Co., Anderson, Fla., carriages, band mill, edger, trimmer, live rolls, filing room tools, nigger, steam feed, 22 × 36-in. Reynolds Corliss engine.

TRADE PUBLICATIONS.

RECORDING GAGES.—The Bristol Co., Waterbury, Conn. Paper; 3¼ × 6 ins.; pp. 11; illustrated.

This pamphlet consists of illustrations of Bristol voltmeters, ammeters, wattmeters, gages, etc., with brief notes on their merits.

ASBESTOS COVERINGS.—H. W. Johns-Manville Co., 100 William St., New York City. Paper; 3½ × 6 ins.; pp. 4; illustrated.

Asbestos "Fire-felt" coverings are made for insulating steam pipes, boilers, etc.; they are made of asbestos fiber, loosely felted together. Statistics as to economy and list prices are given.

WATERPROOFING COMPOUND.—Sandusky Portland Cement Co., Sandusky, Ohio. Paper; 3½ × 6 ins.; pp. 4; illustrated.

This leaflet contains a water absorption test indicating the beneficial results of using Medusa waterproof compound on concrete blocks. An illustration shows the manager's house where waterproof compound was used throughout, permitting plastering directly on the blocks.

NARROW GAGE RAILWAYS.—C. W. Hunt Co., West New Brighton, Staten Island, N. Y. Paper; 3½ × 6 ins.; pp. 44.

Hunt "industrial" railways are especially designed for use in manufacturing plants, where they save considerable space as compared with a standard gage railway. Not only the track, but the entire equipment, is furnished by the company, including cars of standard or special design. Illustrations show all this equipment as well as complete installations.

CAR AND TRUCK SPECIALTIES AND SUPPLIES.—J. G. Brill Co., Philadelphia, Pa. Catalogue No. 165. Paper; 12½ × 10¼ ins.; pp. 36; illustrated.

This is an order guide for supplies and car and truck specialties. Directions for ordering are provided; the parts of all appliances, etc., are numbered in the illustrations; in many cases line cuts are inserted, giving dimensions. Both past and present styles of the Brill equipment are shown. As a catalogue it is comprehensive and should prove of value to those ordering supplies of this character.

FEED-WATER HEATERS AND PURIFIERS.—Warren, Webster & Co., Camden, N. J. Paper; 6 × 9 ins.; pp. 32; illustrated.

This pamphlet, which is stated to be Part I., Appendix VI., to the company's general catalogue, describes the class "Ed" type of Webster feed-water heaters and purifiers, for capacities ranging from 500 to 5,000 HP. They are carefully described in the pamphlet and their operation explained; arguments are given to show their points of merit. Illustrations show clearly the relative positions of the parts, which are numbered to correspond to a table.

ELECTRICAL APPARATUS.—General Electric Co., Schenectady, N. Y. Seven pamphlets. Paper; five 8 × 10 ins.; two 5¼ × 7¾ ins.; illustrated.

Bulletin No. 4443 describes the Sprague-General Electric multiple unit control for alternating and direct current operation. This apparatus is designed to control both single cars and trains equipped with single-phase motors, operating on lines supplied with alternating current throughout, or with alternating current on one section of the line and direct current on the other.

Bulletin No. 4446, which supersedes No. 4405, is devoted to starting compensators for alternating current motors. They are recommended for use with motors of five HP. and over, except in cases where potential variations are not objectionable or where the full motor starting effort is required.

Bulletin No. 4449 explains the merits of the General Electric Company's potential and synchronizing plug switches, and shows their use and connections by means of diagrams.

Bulletin No. 4447 describes low voltage three-phase generator and feeder panels. These are suited for the prevailing voltages of 240, 480 and 600, and for controlling generators ranging from 22 to 400 KW. capacity, with feeder panels of from 20 to 320 amperes capacity. The instruments supplied on these panels are also described and illustrated.

Bulletin No. 4450 contains a list with prices of the parts of the GE-80-A railway motor.

Flyer No. 2192 lists motor starting rheostats with no-voltage release, type SA; they are made for voltages of 125, 250 and 500, and may be used with either shunt or compound wound motors.

Incandescent lamp bases for Edison lamps are illustrated in a small pamphlet; prices are given.

For other Proposal Advertisements see pages 51, 52, 53, 54, of Advertisements and Construction News page 80.

UNDERGROUND TRANSMISSION LINE.

Albany, N. Y.

Sealed proposals in duplicate will be received and opened at the office of J. G. White & Company, Incorporated, 43-49 Exchange Place, New York, N. Y., on Saturday, Sept. 22, at 12.00 M., for furnishing all material, labor and other appliances and installing an underground line for the transmission of electric current from the Engine Room of the State Capitol to the Boiler House of the Executive Mansion in the City of Albany, as set forth in the plans and specifications. The necessary plans and specifications will be furnished to responsible intending bidders and a certified check in the sum of $25.00, payable to the order of the undersigned, must accompany requests for plans and specifications. Information as to the amount of check, surety bond or cash to be deposited with the bid and subsequent bond required for the performance of the contract will be stated in the specifications. No bid will be considered which does not contemplate the complete transmission line as called for under the terms of the specifications. The right to reject any and all bids, to waive any informality in any bid or to re-advertise is reserved.

J. G. WHITE & CO., INC.,
9-4t 43-49 Exchange Place, New York City.

U. S. ENGINEER OFFICE, New London, Conn., August 28, 1906.—Sealed proposals for rock removal in New London Harbor, Conn., will be received here until 12 o'clock noon, September 27th, 1906, and then publicly opened. Information furnished on application. HARRY TAYLOR, Maj., Engrs. 9-4t

STONE ROAD.

Township of Hohokus, Bergen County, N. J.

Bids for a stone road in the Township of Hohokus, County of Bergen, N. J., about 1½ miles.

Bids to be opened Saturday, Sept. 15, 1906, at 3 p. m.

Plans and specifications can be examined at:

Office of State Commission of Public Roads, Trenton, N. J.;
Township Committee, Ramsey, N. J.;
Township Engineer, Richard Wanmaker, Mahwah, N. J.

(Signed) CHAS. F. SCHNEIDER,
9-3t Clerk.

Situations Wanted

Superintendents, Misc., etc.

ENGINEER AND SUPERINTENDENT, or manager for large contracting firm, desires change, about early in September, for broader field; technically educated, both civil and mechanical engineering; age, 38; M. Am. Soc. C. E.; broad and comprehensive experience in general engineering and contracting, having had full charge of designing and constructing important works during past 12 years. Experience on railways, canals, rivers, harbors, dredging, excavating, earth and rock tunnels, sewers, water-works, reservoirs, docks, wharves, difficult foundations, masonry, massive concrete structures, submerged structures, cofferdams, caissons, estimating cost, bidding on and executing contract work, handling large forces and executing difficult work. Full information on request. Refer, past and present employers. Sober and industrious. Prefer position with contracting firm. Address "H. A. 23," Engineering News, New York. 9-5t

SITUATION as Superintendent or general foreman, railroad, steam shovel, concrete, foundation, water-works, etc.; am sober and hustler; first-class references as to ability. Address "Z. A. 9," Engineering News, New York. 9-1t

Situations Open

STRUCTURAL DRAFTSMAN wanted, who is also familiar with reinforced concrete construction. Permanent position. Address "I. A. 9," Engineering News, New York. 9-1t

DRAFTSMEN WANTED.—Technical graduates preferred; state age, education, experience, salary wanted. THE TRENTON IRON CO., Trenton, N. J. 9-1t

WANTED—Structural and mechanical detailers by a prominent manufacturer of conveying and hoisting machinery. Technical graduates with one or two years' practical experience preferred. Permanent positions for the right men. Address "W. 8," Engineering News, New York. 9-1t

WANTED—Assistant professor of civil engineering to teach hydraulics, masonry and descriptive geometry at a Western State university. Salary, $1,200 to $1,400. Address "F. A. 9," Engineering News, New York. 9-1t

WANTED, IMMEDIATELY, technical man, thoroughly familiar with the use of logarithms, to make computations on land surveys and lot subdivision. Address, stating age, experience and salary expected, "A. A. 9," Engineering News, New York. 9-1t

WANTED.—Transitman, experienced in railroad and general topographic work; must be neat and rapid worker; one familiar with general field work preferred; location: Eastern Pennsylvania. Address "B. B. 9," Engineering News, New York. 9-3t

WANTED—Engineers experienced in design of steel constructions. One having some experience in reinforced concrete preferred. State experience, age and salary expected. Address "W. A. 9," Engineering News, New York. 9-1t

Miscellaneous Wants

WANTED
SEVERAL SECOND-HAND
AIR COMPRESSORS

straight line, single or two-stage machines, for high pressures; must be in first-class condition and furnish 300 feet free air or more each per minute. Give full particulars. Address "A. B. 8," Engineering News, New York. 9-1t

FOR SALE

FOR SALE.

18 and 34 x 42 Atlas Heavy-Duty Corliss Engine

recently manufactured and never been used. Will be disposed of at a bargain.

ATLAS ENGINE WORKS,
tf Indianapolis.

FOR SALE.

One Model 60 Marion

2½-yard dipper; new. Man furnished to demonstrate same from factory. One Vulcan, new, 1906 Model, Class "C." Both for immediate delivery.

C. B. LANHAM,
Pyle Bldg., Bristol, Tenn. 8-tf

FOR SALE.

One 20-H.P. High-Speed Woodbury, Booth & Pryor Engine

also one 40-HP. high-speed Chandler & Taylor engine. Address for particulars, WHITMORE, RAUBER & VICINUS, Rochester, N. Y. 8-2t

Bridges for Sale

4 75' Deck Girder Bridges; 1 84' Deck Girder Bridge; 2 45' Deck Girder Bridges; 2 24' Deck Girder Bridges; 2 Single Track Rolled I-Beam Girder Bridges; 1 Double Track Rolled I-Beam Girder Bridge.

F. P. JEFFRIES
Genl. Pur. Agt., C. & E. I. Ry.,
7-4t 713 La Salle St. Station, Chicago, Ill.

FOR SALE.

One 10-ton Kelly-Springfield Road Roller

Has had but about one month's work.

HENRY H. MEYER COMPANY,
No. 110 South Howard St., Baltimore, Md.
7-4t

ENGINES FOR SALE

10½ x 12 Armington & Sims.
11 x 14 Metropolitan.
14 x 16 Metropolitan.

See Engineer, Mr. Reeve

J. H. WILLIAMS & CO.
DROP FORGINGS 9-tf
150 Hamilton Avenue Brooklyn, N. Y.

FOR SALE.

ONE COMPLETE SET OF IRON SPIDER PATTERNS

to be used in building iron center wood rim pulleys, either solid or split. Sizes 12 to 60 inches. Particulars upon application. Address "C. B. 9," Engineering News, New York. 9tf

"WANT"

Advertisements in ENGINEERING NEWS cost 1½ cents a word an insertion for "Situations Wanted" and 3 cts. a word for "Situations Open" and "Miscellaneous Wants." Read them weekly as they will help you.

Air Compressor

FOR SALE

12 × 12 × 14-in. Ingersoll-Sergeant, Class A Piston air-inlet. Used about ten days. Price, $1,0

ROBERT A. CUMMINGS,
4 ..thfield St.,
8-2t Pittsburg, Pa.

FOR SALE.

Two Fine 17 x 24-inch Six-wheel Switching Locomotives

with tenders. Thoroughly overhauled. Immediate delivery. Will be sold at attractive price.

A. V. KAISER & CO.,
739 Drexel Bldg., Philadelphia. 8-3t

FOR SALE.

Six 250 H. P. Babcock & Wilcox Boilers

COMPLETE.

Can be inspected where they now stand. For particulars and price, apply to

HENRY A. HITNER'S SONS,
Aramingo Ave. and Huntingdon St.,
4tf Philadelphia, Pa.

FOR SALE

Complete Ingersoll-Sergeant Compressor Plant

1—24 in. x 24¼ in. x 30 in. Compressor, 1,200 cubic feet air per minute.
1—20 in. x 20¼ in. x 30 in. Compressor, 800 cubic feet air per minute.
Air Receiver, 54 in. x 12 ft.
4—80 H. P. "Economic" Portable Return Tubular Boilers, Erie Iron Works.
1—Berryman Feed-Water Heater.

This plant was only used one year and is as good as new.

Apply to P. F. BRENDLINGER, 1009 Arcade Building, Philadelphia. 1-tf

FOR SALE.

Plate Girder Deck Draw Span

for heavy double track trolley traffic. Center pier construction, two 45-ft. river spans, 20-ft. roadway, two sidewalks.

THE SNARE & TRIEST CO.
9-2t 143 Liberty St., N. Y. City.

FOR SALE.

Bridge and Structural Steel Works

Newburgh, N. Y.

Capacity, 400 tons per week. Adapted for heaviest kind of structural work. New brick building, latest modern electrically-driven machinery. Water front and railroad switch connections.

DE SELDING BROS.,
9-1t 149 Broadway, New York.

FOR SALE.

SECOND-HAND SELF-SUPPORTING STEEL CHIMNEY

including base plate and anchor bolts. Shaft 100 ft. high × 38 ins. inside diameter. Good condition. Price, $200.00 F. O. B. cars. Address "P. 9," c/o Engineering News, New York. 9-3t

FOR SALE.

40 Wheel Scrapers, in excellent condition.
Ransome Concrete Mixer, Hoist and bolts for concrete construction.
70 Koppel steel cars, tracks, switches, etc.

FICKLEN & STOBAUGH, 9-tf
215 Montague Street, Brooklyn, N. Y.

For Sale or Rent

Steam Road Rollers

Several Different Makes

JULIAN SCHOLL & CO.
126 Liberty Street 9-4t New York City

FOR SALE.

ONE AUSTIN NEW ERA GRADER AND WAGON LOADER

Loads 900 yds. in 10 hours.

One Austin reversible road machine.
One steam drill.
2,200 ft. 30-in. gage sectional track.
18 one-yard cars.

R. C. McMAINS,
9-1t Irvington, New Jersey.

FOR SALE

Carson-Lidgerwood Cableway

300 ft. span; complete with engine; towers; travellers; steel tubes.............$1,550.00

Address
BARBER ASPHALT PAVING COMPANY,
Land Title Building,
Philadelphia. 9-tf